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Board of Grain Commissioners FOR CANADA

DEPARTMENT OF TRADE AND COMMERCE

Rt. Hon. C.D. Howe M.P. Minister, Wm. Frederick Bull, Deputy Minister

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CANADA

Report for 1955

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BOARD OF
GRAIN COMMISSIONERS FOR CANADA

ANNUAL REPORT
for
1955



CANADA

DEPARTMENT OF TRADE AND COMMERCE
OTTAWA, CANADA

Minister:
RT. HON. C. D. HOWE, M.P.

Deputy Minister:
WM. FREDERICK BULL

EDMOND CLOUTIER, C.M.G., O.A., D.S.P.
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WINNIPEG, Manitoba,
January 16, 1956.

THE RIGHT HONOURABLE C. D. HOWE, M.P.,
Minister of Trade and Commerce,
Ottawa, Canada.

SIR,—We beg to submit herewith Report of the Board of Grain Commissioners for Canada for the year 1955 in compliance with section 23 of the Canada Grain Act.

This report records information and statistics relating to grain handlings for the crop year August 1, 1954 to July 31, 1955, expenditures and revenue for the fiscal year April 1, 1954 to March 31, 1955 and summarizes the major activities of the Board for the 1955 calendar year.

Grain Supplies and Disposition—Crop Year 1954-55

A record volume of grain comprised of 895.2 million bushels of wheat, oats, barley, rye and flaxseed was carried into the 1954-55 crop season in licensed storage, in transit and in farm bins, both east and west. Sharply reduced Canadian grain crops in 1954 added 308.9 million bushels of wheat, 306.8 million bushels of oats, 175.5 millions of barley, 14.2 million bushels of rye, and 11.2 million bushels of flaxseed to this carryover for a total of 1,711.8 million bushels of these five principal grains available for the year's requirements for domestic use and export.

Marketings

Canadian farmers delivered 528.6 million bushels of this grain to the licensed elevator system during 1954-55—a reduction of 87.8 millions from the final marketing total established for the previous year. Western farmers delivered 519.5 millions to country elevators, supplied a further 4.7 millions to interior, private and mill elevators and shipped .3 millions over loading platforms. Only 4.1 millions of eastern grain moved from eastern farms into the licensed system compared with average marketings of 6.3 millions over the past five years.

Terminal and Eastern Elevator Handlings

The flow of grain forward from the prairies into terminal positions declined further in 1954-55, though at a less pronounced rate than during the previous season. Fort William-Port Arthur elevators unloaded 176,281 cars for total receipts of 324.8 million bushels of the five principal grains compared with 360.5 million bushels in 1953-54. Lake shipments of 309.6 million bushels during the crop year were down from the 327.6 millions moved down the lakes during the previous season. This reduction was more than accounted for by reduced shipments to United States ports, 37.0 millions against 108.0 millions during 1953-54.

Handlings at Pacific Coast terminals dropped sharply from the record level established in 1953-54 (139.9 millions) when these ports accounted for over fifty per cent of Canada's overseas grain clearances. West coast elevators reported receipts of 101.7 million bushels, made up of 81.9 millions of wheat, 4.1 millions of oats, 15.4 millions of barley and .3 millions of flaxseed. During the 1954 shipping season 12.2 million bushels of wheat were shipped from Churchill, compared with 11 million in the previous year. In 1955, a further increase was recorded with shipments of 13.1 millions.

Exports

Canada's exports of the five major grains, together with wheat flour and milled oats totalled 366.8 million bushels for the 1954-55 season. Over the period August 1, 1954 to July 31, 1955, Canadian exporters moved into world trade channels 251.8 million bushels of wheat and wheat flour, 22.2 million bushels of oats and milled oats, 77.1 million bushels of barley, 9.3 millions of rye and 6.1 million bushels of flaxseed. Canadian clearances accounted for slightly over 2 per cent of the international movement of the two bread grains, wheat and rye and 20.8 per cent of the world trade in coarse grains. These exports represented a drop of 71.1 million bushels in total from Canadian exports of the previous season. An increase of 15.5 millions in shipments to overseas markets only partially compensated for the decline in the movement of Canadian oats, barley and rye into United States domestic markets. United States imports of Canadian oats dropped from 65.9 millions to 14.8 millions, of Canadian barley, from 36.9 millions to 19.1 millions, and of Canadian rye from 16.3 millions in 1953-54, to only 1.8 million in the 1954-55 season. The United Kingdom was Canada's principal grain market in 1954-55 accounting for 154.2 millions or over 42 per cent of our total grain and flour exports for the year.

Domestic

Domestic needs for human consumption, industrial use and for feed and seed absorbed an estimated 651.0 million bushels of the five major grains. Approximately 155 million bushels of this domestic grain were supplied through the elevator system; the remainder was used direct on the farms without passing through a licensed elevator. The combined disappearance for domestic and export accounted for 1,017.8 million bushels compared with 1,082.7 millions in 1953-54.

Carry-Over

The carry-over of 694.0 million bushels remaining in all positions at July 31 1955, was substantially below the record quantity of grain on hand at the close of the previous crop season. Stocks of Canadian grain in farmers' bins (estimated by the Dominion Bureau of Statistics) in licensed storage and in transit between North American positions included 499.0 million bushels of wheat, 83.9 million of oats, 91.4 millions of barley, 18.5 millions of rye and 1.2 millions of flaxseed reflecting reduced holdings of all grains as well as in total.

Licensing and Bonding

On July 31, 1955, total licensed storage capacity was 586,236,910 bushels including 6,252,850 bushels in supplementary off-track annexes to country elevators covered by 5,488 country, terminal, mill and eastern elevator licences, an increase of 12,261,102 bushels capacity and 12 licences over the previous year. Country elevator capacity including supplementary annexes accounted for most of this increase in the amount of 11,990,112 bushels.

Assistant Commissioners

By an amendment to section 5 of the Canada Grain Act, assented to March 31 1955, provision was made for the appointment of an additional Assistant Commissioner for the Province of Saskatchewan.

Mr. Joseph I. Hetland was appointed to this position effective April 30, 1955. He has jurisdiction over the northern half of the province with headquarters at Saskatoon. Assistant Commissioner Allan G. McLean has jurisdiction over the southern half of the province with headquarters at Regina.

BOARD OF GRAIN COMMISSIONERS

During 1955 Assistant Commissioners inspected 515 elevators in Manitoba, 1,515 in Saskatchewan and 1,174 in Alberta. These officials were also extensively engaged in inspecting off-trackage premises which licensees of country elevators applied to use as emergency grain storage.

Complaints investigated totalled 54—including 6 carried forward from 1954—as compared with 91 in the previous year. Five originated in Manitoba, forty-one in Saskatchewan, and eight in Alberta.

Disposition of complaints investigated was as follows:

	Manitoba	Saskatchewan	Alberta	Total
No grounds for complaint.....	1	16	1	18
Settlement effected.....	1	10	3	14
Outside jurisdiction of Board.....	—	—	1	1
Licensee fined or penalty applied.....	1	3	1	5
Licensee warned.....	2	2	1	5
Complaint withdrawn.....	—	3	1	4
Not yet disposed of.....	—	7	—	7
Totals.....	5	41	8	54

The Assistant Commissioners, in addition to inspecting elevators and investigating complaints, handled numerous inquiries respecting car supply, car order book and the general operation of country elevators. They also continued the practice of discussing with country elevator agents the problems of excessive overages.

Prosecutions

Nineteen penalties for breaches of the Board's Regulations and Orders made under the Canada Grain Act amounting to \$16,335.00, were levied and collected as follows:

Number of Penalties	Contravention	Amount
11	Board Order dated December 17, 1954, under section 68, Canada Grain Act.....	\$15,110.00
1	Board Regulation No. 21, Section 6.....	400.00
7	Board Regulation No. 18, Section 6.....	825.00

Shortages and Overages, Country Elevators

During the crop year 1954-55, owing to the congested storage situation, only 1,257 out of a total of 5,377 licensed country elevators were weighed over. An analysis of the results disclosed by these audits is given in the following table:

ELEVATORS REPORTING	1954-55	1953-54
Shortages.....	414	356
Neither overages nor shortages.....	7	6
Overages of less than .25%.....	563	420
Overages of .25% to .50%.....	198	195
Overages over .50%.....	75	110
Total elevators weighed over.....	1,257	1,087

TRADE AND COMMERCE

Hearings were held by the Board during 1955 at Winnipeg, Saskatoon, Regina, Calgary and Edmonton, at which 118 country elevator agents with unsatisfactory records as disclosed in the returns for the crop year 1953-54, were examined as to the details of their operations which resulted in the accumulation of excessive overages. The superintendents and management officials of the licensees were also required to attend these hearings to give explanations concerning accumulation of overages.

Cars Out of Turn

Under the provisions of sub-section (2) of section 68 of the Canada Grain Act, the Board authorized 2,763 cars out of turn to move seed, fumigated and out-of-condition grain, and to move or reduce stocks in country elevators and annexes flooded or in danger of collapse, as follows:

PURPOSE	1955	1954
Grain Out of Condition.....	504	555
Elevators and Annexes in Danger of Collapse.....	1,759	1,013
Elevators and Annexes Flooded.....	372	136
Seed Grain.....	14	5
Grain Fumigated for Rusty Grain Beetle Infestation.....	59	104
Others.....	55	14
Totals.....	2,763	1,827

Regulations and Orders

During the year one new regulation was made by the Board, No. 27, providing that grain in country elevators infested with Rusty Red Grain Beetle, or other like insects, be fumigated before shipment, and specifying the procedure to be followed in shipping this grain after fumigation.

Minor amendments were made to existing regulations as follows:

- Regulation No. 15—May 25, 1955—to provide that the maximum temperature of 110° Fahrenheit, at which certain of the top grades of barley shall be dried, be also made applicable to the grades of Tough and Damp 4 C.W. Six Row and Tough and Damp 3 C.W. Two Row Barley.
- Regulation No. 7—August 1, 1955—revising the definition for the grade of No. 1 Feed Screenings to provide that the minimum content of broken and shrunken grain in this grade shall be thirty-five per cent.
- Regulation No. 18—August 1, 1955—revising the form of Country Elevator Cleaning Receipt in the Schedule to this regulation.
- Regulation No. 20—August 1, 1955—increasing the maximum additional charge for delivery of grain to trucks at eastern elevators at Montreal, Quebec, Sorel and Three Rivers from three-quarters of one cent to one and one-quarter cents per bushel.
- Regulation No. 22—August 1, 1955—reducing from three per cent to two and one-half per cent the amount of flax in "clean till clean" cars of wheat, oats, barley and rye for which separate returns are required to be made to the shipper by terminal elevator operators, and also providing that separate returns be made on such cars containing three per cent or more of flax and broken grain.

BOARD OF GRAIN COMMISSIONERS

By Order No. 1—1955-56, dated September 30, 1955, the Board suspended until further notice but not beyond July 31, 1956, the provision in the Board's Regulation No. 23 that all grain received for storage at any licensed country elevator shall be stored in the building or buildings described in the application for licence, and not otherwise.

This suspension arose out of existing congestion of storage facilities and the need to provide in case of emergency, space to turn stored grain to prevent deterioration or to make repairs to licensed buildings, but the order provides that the grain shall be re-stored in the elevator buildings immediately the emergency situation has been rectified.

By Order No. 2—1955-56—dated October 19, 1955, the Board prohibited the unloading at licensed eastern elevators of grain from lake vessels loaded at the Lakehead during the summer months for storage, without special permission from the Chief Grain Inspector. This action was taken to ensure that all such grain was checked for insect infestation before unloading.

Committees on Grain Standards

Committees on Western and Eastern Grain Standards for the crop year 1955-56 were constituted by the Board in accordance with the provisions of section 25 of the Canada Grain Act. Personnel of these Committees is given in Appendix A.

The Western Committee was convened in Winnipeg on October 12, 1955 and on November 9, 1955, and selected and settled standard samples of the following statutory grades of Western grain:

RED SPRING WHEAT	AMBER DURUM WHEAT
No. 1 Manitoba Hard	No. 1 Canada Western
No. 1 Manitoba Northern	No. 2 Canada Western
No. 2 Manitoba Northern	No. 3 Canada Western
No. 3 Manitoba Northern	
No. 4 Manitoba Northern	WINTER WHEAT
No. 1 Canada Western Garnet	No. 1 Alberta Red
No. 2 Canada Western Garnet	No. 2 Alberta Winter
No. 3 Canada Western Garnet	No. 3 Alberta Winter
BARLEY	OATS
No. 1 Canada Western Six Row	No. 1 Canada Western
No. 2 Canada Western Six Row	No. 2 Canada Western
No. 3 Canada Western Six Row	No. Extra 3 Canada Western
No. 1 Canada Western Two Row	No. 3 Canada Western
No. 2 Canada Western Two Row	No. Extra 1 Feed
No. 1 Feed	No. 1 Feed
No. 2 Feed	No. 2 Feed
FLAXSEED	RYE
No. 1 Canada Western	No. 1 Canada Western
No. 2 Canada Western	No. 2 Canada Western
No. 3 Canada Western	No. 3 Canada Western

This Committee also named, defined and selected and settled standard samples for the following commercial grades:

RED SPRING WHEAT	BARLEY
No. 5 Wheat	No. 4 Canada Western Six Row
No. 6 Wheat	No. 3 Canada Western Two Row
	No. Extra 2 Feed

AMBER DURUM WHEAT

No. Extra 4 Canada Western

and selected and settled standard export samples for the grades of No. 1 Manitoba Hard, Nos. 1, 2, 3 and 4 Manitoba Northern, Nos. 1, 2 and 3 Canada Western Garnet, No. 5 Wheat, and Nos. 1, 2 and 3 Canada Western and No. Extra 4 Amber Durum. In accordance with the provisions of sub-section 4 of section 27 of the Canada Grain Act, the Committee authorized the use of the last standard sample for other grades of Western grain not selected by the Committee at these meetings owing to suitable samples not being available.

The Eastern Committee was convened in Toronto on August 22, 1955 and November 16, 1955, and selected and settled standard samples of the following statutory grades of Eastern grain:

WHEAT

No. 1 Canada Eastern White Winter
No. 2 Canada Eastern White Winter
No. 3 Canada Eastern White Winter
No. 4 Canada Eastern White Winter

No. 1 Canada Eastern Mixed Winter
No. 2 Canada Eastern Mixed Winter
No. 3 Canada Eastern Mixed Winter
No. 4 Canada Eastern Mixed Winter

BARLEY

No. 1 Canada Eastern Six Row
No. 2 Canada Eastern Six Row
No. 3 Canada Eastern Six Row
No. 4 Canada Eastern

SOYBEANS

No. 1 Canada Yellow Soybeans
No. 2 Canada Yellow Soybeans
No. 3 Canada Yellow Soybeans
No. 4 Canada Yellow Soybeans
No. 5 Canada Yellow Soybeans

CORN

No. 1 Canada Eastern Yellow
No. 2 Canada Eastern Yellow

OATS

No. 1 Canada Eastern White
No. 2 Canada Eastern White
No. 3 Canada Eastern
No. 4 Canada Eastern

RYE

No. 1 Canada Eastern
No. 2 Canada Eastern
No. 3 Canada Eastern
No. 4 Canada Eastern

BUCKWHEAT

No. 1 Canada Eastern
No. 2 Canada Eastern
No. 3 Canada Eastern

BEANS

Extra No. 1 Canada Eastern Pea Beans
No. 1 Canada Eastern Pea Beans
No. 2 Canada Eastern Pea Beans
No. 3 Canada Eastern Pea Beans
No. 4 Canada Eastern Pea Beans

FLAXSEED

No. 1 Canada Eastern

This Committee authorized the use of the last standard samples for other statutory grades of Eastern grain not selected by the Committee at these meetings owing to suitable samples not being available.

Inspection of Grain

Inspections of the 1954 Western crops showed that the three prairie provinces harvested the poorest crops of Red Spring Wheat and Amber Durum Wheat for a number of years owing to widespread rust infestation. Coarse grain crops were also below average quality. Unfavourable weather conditions in the early part of October delayed harvesting and also tended to reduce the quality of the crops.

Primary inspections of Western grain in the crop year ended July 31, 1955, totalled 278,338 carlots, or about four per cent less than the average for the past

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ten years. Primary inspections of Eastern grain totalled 10,954 carlots as compared with 13,774 carlots in the previous year.

By amendment to Schedules One and Two of the Canada Grain Act assented to on March 31, 1955, the statutory specifications for the grades of No. 3 Canada Western and No. 3 Canada Eastern Amber Durum Wheat were changed, effective August 1, 1955, to provide that, to qualify for these grades, Amber Durum must be of the Mindum variety or of a variety equal to Mindum. Revised specifications for the grades of Soybeans, both in the Western and Eastern Divisions, were also made effective August 1, 1955.

The Committee on Western Grain Standards established for the crop year 1955-56 additional commercial grades of Extra No. 4 Canada Western Amber Durum and Extra No. 2 Feed Barley.

Inspections to date of the 1955 crop indicate that this crop is above average quality and weight per bushel. The principal degrading factors are midge damage, glume blotch, frost and immaturity in wheat, aphid damage and frost in barley, and frost in oats.

Grain Research Laboratory

The Board's Grain Research Laboratory has continued to provide the necessary scientific service for evaluating the quality of the different grains which is essential for the preparation of grain standards and the application of Canada's grading system. Crop bulletins and protein maps to publicize the quality of Canadian crops have been given wide distribution. Special services have been provided for the Canadian Wheat Board and the Laboratory has continued to co-operate with other scientific institutions and committees interested in the evaluation of quality in grain. Research seeking better understanding of factors affecting quality in spring wheat, durum wheat and malting barley is being actively pursued.

A summary of the work of the Laboratory is given in Appendix H to this report and detailed information will be available in the Annual Report of the Laboratory to be published separately.

Weighing of Grain

All grain received at or shipped from licensed terminal elevators was weighed by the Board's weighing staff in accordance with sections 33 and 124 of the Canada Grain Act, and the same service was provided at licensed mill elevators on request. Officers of the Weighing Branch also inspected scales and equipment, and investigated outturn shortages on vessel shipments. Details of the work of this Branch are given in Appendix F.

Weighover of Stocks, Terminal and Eastern Elevators

In accordance with the provisions of section 139 and 140 of the Canada Grain Act, 30 terminal and 27 eastern elevators were weighed over during the 1954-55 crop year. Due to the large volume of grain in store, the Board deferred weighovers into the current crop year at three of the Canadian Government Elevators, nine terminal elevators at the Lakehead, five terminal elevators on the Pacific Coast, and two eastern elevators. Twelve of these nineteen deferred weighovers were carried out before the end of the calendar year 1955.

Results of the 57 weighovers carried out in the crop year 1954-55 are given in Tables G.12 to G.16 of Appendix G. At one eastern elevator the weighover disclosed certain overages in respect of which the licensee was required to make settlement to the Canadian Wheat Board in the amount of \$551.63.

Terminal and Eastern Complaints

Forty-two complaints in connection with the handling of grain at terminal elevators and the shipment of grain to Eastern Canada, were investigated by the Board during 1955 compared with twenty-three in the previous year. Forty-one of the complaints were in respect of the unload weights of grain shipped from Lakehead terminal elevators to licensed eastern elevators while the other complaint was in respect of the quality of a parcel of sacked grain shipped from Western Canada to a poultry farm in Ontario.

These complaints were disposed of as follows:

	Quality	Quantity
No cause of reported discrepancy found.....	—	33
No grounds for complaint.....	1	—
Settlement effected.....	—	5
Not yet disposed of.....	—	3
Totals.....	1	41

Complaints on Export Shipments

Thirty-two complaints in respect of the quality or weight of overseas shipment were received during the year 1955. Four complaints received in 1954 were brought forward making a total of thirty-six overseas complaints investigated in the year as compared with thirty-one in 1954. Disposition of these complaints was as follows:

	Quality	Quantity
No cause of reported discrepancy found.....	—	22
Insufficient evidence to fix liability.....	1	—
No grounds for complaint.....	5	—
Settlement effected.....	2	2
Complaint withdrawn.....	—	1
Not yet disposed of.....	—	3
Totals.....	8	28

Statistics

Statistics relating to Canadian grain movement collected and compiled by the Board's Statistics Branch and other work of this Branch, are presented in Appendix G of this report.

Information Program

During the summer of 1955 the exhibit outlining the functions of the Board was displayed at Carman and Altona in Manitoba, at Estevan, Weyburn and Melfort in Saskatchewan, and at Grande Prairie in the Peace River District of Alberta. Showings of the Board's film were made in conjunction with the exhibit and this undoubtedly increased the effectiveness of the exhibit in placing before farmers and the general public details of the handling of grain under the provisions of the Canada Grain Act. The Board's film has also been made available for showing at a number of country meetings.

BOARD OF GRAIN COMMISSIONERS

The Board and its senior officials, in co-operation with the Canadian Wheat Board, demonstrated to members of official missions and delegations from Australia, Bolivia, Chile, Ecuador, Germany, Japan, Peru, the United Kingdom, the U.S.S.R. and Venezuela, the functions of the Board in the handling of grain. The Board also arranged a training program in grain handling procedures for a party of officials from India and Pakistan under the Colombo Plan. The Assistant Chief Grain Inspector, Mr. M. J. Conacher, visited Japan for discussions with officials of the Japanese Food Ministry on procedures followed in the inspection of Canadian grain.

Members of the Board and senior officials addressed the annual meetings of producer organizations and meetings of other organizations in Western Canada.

Canadian Government Elevators

Receipts of grain during the crop year 1954-55 at the Canadian Government Terminal Elevators operated by the Board at Moose Jaw, Saskatoon, Edmonton, Calgary, Lethbridge and Prince Rupert were only 10.2 million bushels and shipments 10.4 million bushels, as compared with 13.9 million and 12.6 million bushels in the previous crop year. From an operating standpoint, however, the 1954-55 crop year was another satisfactory year as the elevators were used to approximately eighty-five per cent capacity throughout the year. In the fiscal year 1954-55, revenues exceeded expenditures by \$682,698.

Progress has been made during the year on the program of improvement and repairs to buildings and replacement and reconditioning of the equipment at these elevators, which could not be carried out during the war and immediate post-war years.

Lake Freight Rates

The maximum rates authorized by the Board's Order No. 20 of September 28, 1954, as follows, remained in effect throughout the 1955 season of navigation:

	Wheat and Rye	Barley	Oats
		—cents—	
(a) From: Fort William or Port Arthur, Ontario			
To: Georgian Bay Ports, Goderich, Sarnia and Walkerville.....	5½	5¼	5
Port Colborne.....	7½	7¼	6¾
Toronto.....	8	7½	7¼
Kingston.....	8¾	8¼	8
Prescott.....	9	8½	8¼
Montreal, Sorel, Three Rivers and Quebec City, Direct or transferred at Intermediate Ports.....	16	15¼	14

(b) For grain loaded during the month of December in any year these maximum rates are increased two cents (2c) per bushel to compensate for increased insurance rates.

Table 11 of Appendix G gives the average rates charged. These were appreciably lower than the maximum rates.

Prairie Farm Assistance Act

Under the provisions of section 13 of the Prairie Farm Assistance Act, the Board collected the one per centum levy on grain purchased by licensees under

TRADE AND COMMERCE

the Canada Grain Act during the crop year 1954-55 in the amount of \$5,533,119.63. Total collections by the Board since the inception of this levy in 1939 amount to \$88,750,952.10.

Organization and Personnel

Commissioner R. W. Milner continued to act as Transport Controller in addition to carrying out his duties as a member of the Board.

Commissioner John Vallance retired on account of age, effective March 11, 1955 after four years' service as an Assistant Commissioner and seven years as a Commissioner. He was succeeded by Mr. Stanley Loftson of Bredenburg, Sask.

Mr. S. M. Capon, Chief Grain Weighmaster since December 1, 1929, retired on account of age on August 18, 1955, after forty-two years' service. He was succeeded by Mr. J. J. Manson.

Mr. K. Hlynka, Secretary of the Board since April 1, 1953, resigned effective June 1, 1955 to accept an appointment with a commercial organization, and Mr. W. J. MacLeod, Personnel Officer, was promoted to the position of Secretary, being replaced as Personnel Officer by Mr. G. E. Rogers, a member of the staff of the Executive Office.

The Board's staff at December 31, 1955 was 897, the same as at December 31, 1954, while the staff of the Canadian Government Elevators at Winnipeg, Saskatoon, Moose Jaw, Calgary, Edmonton, Lethbridge and Prince Rupert showed a reduction of 5 to 193, including 40 casuals.

The following table shows location of the Board's staff broken down by groups:

Point	Administrative and Clerical	Inspectors and Assistants	Samplers	Weighmen and Assistants	Trackmen	At December 31, 1955		At December 31, 1954	
						Totals	Casuals†	Totals	Casuals†
Montreal.....	8	9	11	1	—	29	5	22	—
Chatham.....	1	3	6	—	—	10	2	13	4
Toronto.....	—	1	1	—	—	2	—	2	—
Fort William.....	32	100	67	90	52	341	—	340	5
Keewatin.....	—	—	2	2	—	4	—	4	—
Winnipeg.....	113 31*	39	95	10	—	288	2	285	10
Saskatoon.....	3	4	6	4	2	19	—	17	1
Moose Jaw.....	—	4	6	3	1	14	—	13	—
Medicine Hat.....	—	2	1	3	—	6	—	6	—
Lethbridge.....	—	1	2	1	1	5	1	5	1
Edmonton.....	5	8	22	3	2	40	8	42	10
Calgary.....	7	8	18	6	5	44	2	43	5
Vancouver.....	15	28	5	28	9	85	8	96	19
Prince Rupert.....	—	1	2	1	2	6	4	5	4
Victoria.....	—	2	—	2	—	4	—	4	—
Totals.....	184 31*	210	244	154	74	897	32	897	59

†Casuals included in totals.

*Chemists and Technicians.

BOARD OF GRAIN COMMISSIONERS

Expenditure and Revenue

Total expenditure and accrued revenue of the Board, exclusive of the Canadian Government Elevators, for the fiscal year 1954-55 compared with 1953-54 was as follows:

	1954-55	1953-54
Revenue	\$2,429,531.09	\$3,318,179.00
Expenditure	3,552,095.35	3,506,094.00

Expenditure for the nine months of the 1955-56 fiscal year to December 31, 1955, totalled \$2,703,469.97 as against \$2,667,694.50 for the comparable period during 1954-55. Cash revenue for the same nine-month period amounted to \$1,668,120.62 as compared with \$1,900,569.43 in the previous year.

The Appendices attached hereto outline the work of the Board's different branches and furnish detailed statements of various phases of the grain movement.

Respectfully submitted,

D. G. McKENZIE,
Chief Commissioner

R. W. MILNER,
Commissioner

S. LOPTSON,
Commissioner

APPENDIX A

Committee on Western Grain Standards, 1955

D. G. McKenzie, Chief Commissioner, Board of Grain Commissioners
 R. W. Milner, Commissioner, Board of Grain Commissioners
 S. Loptson, Commissioner, Board of Grain Commissioners
 A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners
 Dr. J. A. Anderson, Chief Chemist, Grain Research Laboratory
 J. Forsyth, Chairman, Grain Appeal Tribunal, Winnipeg
 P. J. Marples, Chairman, Grain Appeal Tribunal, Calgary
 R. E. Forrester, Chairman, Grain Appeal Tribunal, Edmonton
 Dr. D. G. Hamilton, Dominion Cerealist
 E. B. Frost, representing the millers of wheat flour

George Bennett.....	}	Representing grain growers in Alberta
W. H. Fairfield.....		
Uri Powell.....		
B. S. Plumer.....		

J. H. Harrison.....	}	Representing grain growers in Saskatchewan
A. P. Gleave.....		
J. Wellbelove.....		
L. L. Gray.....		
N. W. Strelloff.....		

W. J. Parker.....	}	Representing grain growers in Manitoba
R. Barrett.....		
Ray Mitchell.....		

G. Constable, representing grain growers in British Columbia
 J. E. Blakeman, representing Plant Products Division, Department of Agriculture

Committee on Eastern Grain Standards, 1955

D. G. McKenzie, Chief Commissioner, Board of Grain Commissioners
 R. W. Milner, Commissioner, Board of Grain Commissioners
 S. Loptson, Commissioner, Board of Grain Commissioners
 A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners
 R. H. Read, representing Montreal Board of Trade
 E. D. Sullivan, representing Toronto Board of Trade
 C. Gordon McAuley, representing exporters of grain
 F. H. Dunsford.....

H. Norman Davis.....	}	Representing millers of wheat in the Eastern Division
J. R. Heaney.....		
J. E. Nephew.....	}	Representing grain growers in Ontario
G. C. Nichols, representing growers of corn		
E. B. Paterson, Additional		
John W. Ham, Additional		

APPENDIX B

Grain Appeal Tribunals

WINNIPEG

J. Forsyth
(Chairman)
E. A. Sangster
Wm. E. McLeod
G. A. Turner
James Gregory
R. C. Sproule
J. F. Lazenby
D. K. Mills
G. I. Rocan
N. Kawka
(Secretary)

CALGARY

P. J. Marples
(Chairman)
T. F. Allison
J. Tranter
W. M. Pringle
E. J. Munson
W. G. McLeod
G. C. Arbuthnott
A. Watson
G. R. Deeton

EDMONTON

R. E. Forrester
(Chairman)
C. C. Young
M. G. Wood
J. R. MacRae
T. Stickney
D. G. MacKeracher
H. A. Haggarty
C. E. Sage
Ross Saunders
D. F. Marlett
(Secretary)

TORONTO

John W. Ham
C. H. Coatsworth
R. C. Pratt
C. W. Heimbecker
W. A. Robertson
E. D. Sullivan
K. F. Wadsworth
J. C. Noseworthy
(Secretary)

MONTREAL

P. J. Smith
(Chairman)
A. W. Brown
T. B. Earle
J. A. Byrne
J. M. Vittie
G. D. Robinson
Mrs. Muriel B. Hunter
(Secretary)

For information on Appeals of Carlot Inspections refer to Appendix E, Table E-7.

APPENDIX C

Licence and Bonding Branch

C. F. SPITTLE, *Licensing Officer*

Licences are issued by the Board under the provisions of Section 79 of the Canada Grain Act which section also provides that every applicant for a licence shall furnish security by bond or otherwise for the due performance by the licensee of all obligations imposed upon him by the Act.

The Act provides that no railway company or vessel shall receive any Western grain from any elevator or discharge any such grain into any elevator unless such elevator is licensed.

The Act also provides that, except for contracts for the purchase of grain the consideration payable under which is to be paid in full in cash at the time of the making thereof or contracts for the purchase of grain made on the premises of a recognized grain exchange by or through brokers who are members of such exchange, no person in the Western division may make any contract for the purchase of Western grain by reference to any grade name nor act on behalf of any other person in making such contract on a commission basis, unless he is licensed under the Canada Grain Act as a grain dealer, track buyer or grain commission merchant.

During the crop year 1954-55, 5,552 licences were issued to 116 firms and individuals to handle grain under the Canada Grain Act, or 10 less than in the previous crop year. In addition, country elevator licensees were authorized to use 174 supplementary storage annexes, comprising flour sheds, coal sheds, skating rinks and other buildings.

On July 31, 1955, with 5,488 elevator licences in force and 164 buildings authorized for supplementary storage, the total licensed storage capacity was 579,984,060 bushels in elevators, and 6,252,850 bushels in supplementary storage annexes to country elevators. In addition, 54 Track Buyers', Commission Merchants' and Grain Dealers' licences were also in force. The following table gives a comparative statement of numbers and classes of licences in force and storage capacity:

Kind of Licence	Licences in force July 31		Licensed storage capacity July 31	
	1955	1954	1955	1954
Country Elevators.....	5,377	5,359	337,199,450	326,698,550
Supplementary Annexes to Country Elevators.....	*	*	6,252,850	4,763,638
Terminals and Mill Elevators.....	82	86	151,938,810	153,583,820
Eastern Elevators.....	29	29	90,845,800	88,929,800
Track Buyers, Commission Merchants and Grain Dealers.....	54	56	†	†
Totals.....	5,542	5,530	586,236,910	573,975,808

*164 buildings at July 31, 1955, and 139 buildings at July 31, 1954.

†These licences do not cover grain storage facilities.

BOARD OF GRAIN COMMISSIONERS

During the crop year, ten country elevator licences were cancelled, four on account of demolition, one destroyed by fire, four closed down by licensees, and one converted into an annex. The authority covering eight supplementary annexes was also cancelled.

Fifty-four country elevator licences were suspended by the Board for varying periods during rehabilitation and reconstruction of the buildings. Thirty-eight of these were subsequently reinstated but sixteen were still under suspension at July 31, 1955.

Guarantee bonds in the amount of \$27,680,811.50 executed by sixteen approved surety companies were deposited with the Board as security under section 79 of the Canada Grain Act to cover operations of licensees during 1954-55. Four licensees deposited negotiable Government bonds with a par value of \$21,000 in lieu of furnishing the usual form of surety bonds.

At December 1, 1955, at which date essentially all licences were issued for the 1955-56 crop year, there were 5,487 elevator licences in force. In addition, 266 buildings other than elevators were authorized for supplementary storage. The total licensed storage capacity as at December 1, 1955, was 590,803,260 bushels in elevators and 8,521,700 bushels in supplementary annexes, or a total increase of 18,356,150 bushels since December 1, 1954. The total storage capacity by provinces is: Manitoba, 56.9 million; Saskatchewan, 198.7; Alberta, 132.7; British Columbia, 23.0; Ontario, 152.9; and Quebec and the Maritimes, 35.1 million bushels.

Table C-1.—Number and Kind of Licences Issued and Licensed Storage Capacity, as at December 1st Each Year for the Past Five Years

Kind of Licence	1955	1954	1953	1952	1951
NUMBER OF LICENCES					
Public Country Elevator.....	5,369	5,352	5,326	5,341	5,354
Private Country Elevator.....	10	10	10	10	10
Mill Elevator.....	33	36	40	38	38
Public Terminal Elevator.....	5	6	6	6	6
Semi-Public Terminal Elevator.....	35	34	35	36	35
Private Terminal Elevator.....	5	7	6	7	7
Eastern Elevator.....	30	29	29	29	29
Track Buyer.....	21	21	21	21	22
Commission Merchant.....	25	25	26	27	28
Grain Dealer.....	7	8	9	9	11
Totals.....	5,540	5,528	5,508	5,524	5,540
LICENSED CAPACITY					
	thousands of bushels				
Public Country Elevator.....	343,953	332,454	318,224	306,484	290,504
Special Annexes.....	8,522	5,369	4,411	1,579	627
Private Country Elevator.....	349	349	349	350	354
Mill Elevator.....	13,525	13,429	13,495	13,426	13,306
Public Terminal Elevator.....	17,100	18,350	18,350	18,350	18,350
Semi-Public Terminal Elevator.....	116,624	112,873	114,523	108,455	114,524
Private Terminal Elevator.....	7,070	7,295	7,220	7,295	7,295
Eastern Elevator.....	92,182	90,845	84,929	84,930	82,530
Totals.....	599,325	580,964	561,501	540,869	527,490

TRADE AND COMMERCE

Table C-2.—Licensed Elevators and Storage as at December 1, 1955

Kind of Elevator	Ontario	Mani- toba	Saskat- chewan	Alberta	British Colum- bia	Quebec and Mari- times	Totals
NUMBER OF ELEVATORS							
Public Country	2	701	2,940	1,709	17	—	5,369
Special Annexes	—	—	—	—	—	—	—
Private Country	—	4	1	5	—	—	10
Mill	3	6	6	11	7	—	33
Public Terminal	—	—	2	3	—	—	5
Semi-Public Terminal	24	2	—	—	9	—	35
Private Terminal	2	2	—	1	—	—	5
Eastern	18	—	—	—	—	12	30
Totals	49	715	2,949	1,729	33	12	5,487
STORAGE CAPACITY							
thousands of bushels							
Public Country	65	45,352	178,924	117,824	1,788	—	343,953
Special Annexes	1,400	505	3,830	2,787	—	—	8,522
Private Country	—	88	29	232	—	—	349
Mill	1,480	1,775	4,916	4,294	1,060	—	13,525
Public Terminal	—	—	11,000	6,100	—	—	17,100
Semi-Public Terminal	90,517	6,000	—	—	20,107	—	116,624
Private Terminal	2,435	3,145	—	1,490	—	—	7,070
Eastern	57,041	—	—	—	—	35,141	92,182
Totals	152,938	56,865	198,699	132,727	22,955	35,141	599,325

Collection of One Per Cent Levy

The collection during the crop year 1954-55 of the one per cent levy made by this office under provisions of the Prairie Farm Assistance Act is recorded at \$5,533,119.63, a decrease of \$2,453,912.14 from collections during the previous crop year.

Table C-3.—Amounts Collected and Grain Purchased under the One Per Cent Levy, Prairie Farm Assistance Act, Crop Year 1954-55

Province	Wheat	Oats	Barley	Rye	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Manitoba	329,190 33	88,755 70	318,707 88	12,040 14	748,694 05
Saskatchewan	2,515,905 98	231,531 74	362,417 99	59,931 53	3,169,787 24
Alberta	1,154,602 76	114,306 51	311,876 78	33,699 98	1,614,486 03
Totals	3,999,699 07	434,593 95	993,002 65	105,671 65	5,532,967 32
Amount not allocated to provinces					152 31
Total collections Aug. 1, 1954 to July 31, 1955					5,533,119 63
GRAIN PURCHASES					
thousands of bushels					
Manitoba	24,387	13,851	34,083	1,654	73,975
Saskatchewan	195,086	37,266	41,505	7,422	281,279
Alberta	92,649	18,100	36,013	3,841	150,603
Totals	312,122	69,217	111,601	12,917	505,857

APPENDIX D

Registration Branch

C. J. BROWNSCOMBE, Registrar

Section 127 of the Canada Grain Act requires the operators or managers of Public terminal, Semi-Public terminal and Eastern elevators to issue warehouse receipts for all grain taken into store. Regulations No. 1 and No. 2 made by the Board under Section 15 (22) of the Canada Grain Act require that all such receipts be registered with the Board as to grade and quantity at the time of issue and that these warehouse receipts be surrendered to the Board for registration for cancellation when the grain which they represent has been shipped out.

During the 1954-55 crop year, registration service was provided for the licensees of 6 Public Terminal, 34 Semi-Public Terminal and 29 Eastern elevators at registration offices maintained by the Board at Montreal, Winnipeg and Vancouver.

Table D of this appendix presents the total bushels, by grains, for which warehouse receipts were registered against unloads of grain and registered for cancellation against shipments of grain, as well as the averages for the previous ten crop years. In addition, there were daily registrations of warehouse receipts to replace receipts cancelled for splits and consolidations required to facilitate the handling of grain.

Records were maintained by grade, of the total bushels for which warehouse receipts were registered, cancelled or were still outstanding, for each terminal and eastern elevator. Certified statements of outstanding warehouse receipts by grade and grain, were issued for comparison with the stocks of grain weighed over in terminal and eastern elevators.

The total registrations of all grains for elevators in the Winnipeg, Lakehead, Churchill and interior elevator groups in the crop year 1954-55, were less than the ten-year average but registrations for the Vancouver group of elevators, while less than in 1953-54, were still well above the ten-year average so that the over-all total of registrations for the Western Division was only slightly less than the ten-year average. Registrations for elevators in the Eastern Division show an appreciable increase over 1953-54 as well as over the average for the last ten years.

Fees were collected for registration services at the rate of 4 cents per thousand bushels for the Western Division and 1 cent per thousand bushels in the Eastern Division. While the reduced volume of registrations in the Western Division is reflected in the fees collected for that Division, the total collections for both Divisions of \$45,940.48 was still above the ten-year average of \$45,260.37.

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Table D-1.—Warehouse Receipt Registrations for Receipts and Shipments at Public and Semi-Public Terminal Elevators and Eastern Elevators, by Area and Grain, Crop Year 1954-55 and 10-year Average

Area	Grain	Crop Year 1954-55		10-Year Average, 1944-45 to 1953-54	
		Registered	Registered for Cancellation	Registered	Registered for Cancellation
—thousands of bushels—					
WESTERN DIVISION— Winnipeg, including Lakehead and Churchill	Wheat	167,095	179,133	218,214	215,784
	Oats	58,215	55,084	76,149	79,950
	Barley	88,935	88,012	60,389	60,220
	Flax	8,507	8,894	6,233	6,250
	Rye	13,344	11,377	9,165	9,263
	Mixed Grain	315	297	1,124	703
	Corn	—	—	59	66
	Other Grains	202	201	45	48
INTERIOR ELEVATORS— Calgary, Edmonton, Lethbridge, Moose Jaw and Saskatoon	Wheat	2,506	2,663	5,291	4,715
	Oats	579	587	689	698
	Barley	1,347	1,520	1,640	1,632
	Flax	250	248	157	209
	Rye	43	27	30	29
	Mixed Grain	—	1	7	25
	Corn	12	11	15	12
	Other Grains	226	226	220	203
VANCOUVER AND PRINCE RUPERT AREA	Wheat	82,535	81,475	69,425	70,193
	Oats	4,165	4,900	2,754	3,680
	Barley	15,562	14,885	5,698	5,631
	Flax	335	334	109	116
	Rye	—	—	38	38
	Mixed Grain	8	36	53	47
	Corn	—	—	287	286
	Other Grains	154	154	6	5
WESTERN DIVISION— All Points	Wheat	252,136	263,271	292,930	290,692
	Oats	62,959	60,571	79,592	84,328
	Barley	105,844	104,417	67,727	67,483
	Flax	9,092	9,476	6,499	6,575
	Rye	13,387	11,404	9,233	9,330
	Mixed Grain	323	334	1,184	775
	Corn	12	11	361	364
	Other Grains	582	581	271	256
Totals—All Grains		444,335	450,065	457,797	459,803
EASTERN DIVISION—	Wheat	294,051	292,304	294,560	292,983
	Oats	48,120	46,643	46,573	46,619
	Barley	111,747	111,423	55,971	56,153
	Flax	18,598	19,538	8,070	7,995
	Rye	14,358	14,258	6,116	6,029
	Mixed Grain	632	593	434	418
	Sunflower Seed . . .	—	—	—	10
	Corn	17,440	17,122	14,065	14,190
	Screenings	1,192	979	1,014	1,052
	Peas	156	158	37	43
	Soybeans	3,005	2,784	1,298	1,326
	Buckwheat	531	529	197	198
	Other Grains	146	146	126	126
Totals—All Grains		509,976	506,477	428,461	427,142

APPENDIX E

Inspection Branch

A. F. DOLLERY, *Chief Grain Inspector*

Under Section 32 of the Canada Grain Act, the Grain Inspection Branch in the Western Division samples and grades all grain enroute from country points to terminal and mill elevators or other destinations, at the primary inspection points of Winnipeg, Edmonton and Calgary. All grain is also sampled and graded on delivery to terminal or mill elevators at Saskatoon, Moose Jaw, Medicine Hat and Lethbridge if such grain has not passed through an inspection point. In addition, inspectors resample and check primary grading of all grain unloaded into terminal and mill elevators at the Lakehead, Churchill, Pacific Coast and interior points, as well as sampling and grading all grain shipped from terminal or mill elevators.

In the Eastern Division, sampling and grading service is provided on request at Chatham and Toronto for eastern grown grain. At Montreal, Quebec, Sorel, Three Rivers, St. John and Halifax, grain loaded into vessels for export is sampled and the grades are checked. Grades of all grain in store in all terminal and eastern elevators weighed over during the crop year are verified by Inspection Branch officials.

In the crop year ended July 31, 1955, inspections of Western grain at primary points totalled 278,338 carlots compared with 304,599 in the previous crop year. This total is approximately four per cent less than the average for the past ten years.

The predominant grade in Red Spring Wheat was No. 2 Manitoba Northern with 37.2 per cent of total wheat inspections. With 27.5 per cent grading No. 3 Manitoba Northern and 4.4 per cent grading No. 1 Manitoba Northern, the first three grades totalled 69.1 per cent as compared with 77 per cent in the previous crop year. Of the Durum Wheat inspected, 50.7 per cent graded No. 3 C.W. and 28.2 per cent No. 4 C.W., compared with 83.4 per cent No. 3 C.W. and 6.9 per cent No. 4 C.W. in the previous year.

As was the case in the previous crop year approximately one-half of the oats inspected graded No. 1 Feed but the percentages of the higher grades, No. 3 C.W. and Extra 1 Feed, 11.2 per cent and 13.6 per cent respectively, were less than in the previous year when the percentages were 21 per cent and 17 per cent respectively. The predominant grade in Barley was No. 1 Feed, 22.6 per cent with 17 per cent grading No. 3 Canada Western Six Row and 35.6 per cent Tough or Damp, compared with 24 per cent, 33 per cent and 10 per cent respectively in 1953-54. In Rye, 53.1 per cent graded 3 C.W. and 19.3 per cent 2 C.W., which percentages are nearly the same as in the previous crop year, 57.4 per cent and 21.5 per cent respectively. Flax did not grade as high as in the previous year, only 54.8 per cent grading No. 1 C.W. as compared with 85 per cent and 22.2 per cent No. 2 C.W., compared with 10.8 per cent in 1953-54.

Grain inspections on loadings to vessels at the Lakehead, Pacific Coast and Churchill terminal elevators totalled 424 million bushels as compared with 476 million bushels in the previous crop year. Export cargoes shipped from St.

TRADE AND COMMERCE

Lawrence and Atlantic ports, totalling 175 million bushels, were sampled and checked for grade at loading, as compared with 122 million bushels in the previous crop year. Cargoes received at Montreal totalling 105 millions, were also sampled and grades checked, as compared with 88 million in the previous crop year.

Eastern grown grain sampled and inspected in carlots totalled 10,517 cars of which 9,809 cars were handled by the Chatham office. In the previous crop year the totals were 13,774 and 12,336 respectively. Corn accounted for 5.0% cars.

Table E-1.—Primary Carlot Inspections by Grains, Crop Year 1954-55, compared with 1953-54 and 10-year Average 1944-45 to 1953-54

	10-Year Average	1954-55	1953-54	10-Year Average	1954-55	1953-54
	Carlots			Percent of total		
Wheat.....	199,796	177,293	194,747	68.4	63.8	63.9
Oats.....	39,741	29,420	41,319	13.6	10.5	13.6
Barley.....	41,023	56,633	55,027	14.1	20.3	18.0
Rye.....	5,348	7,593	6,394	1.8	2.8	2.1
Flaxseed.....	4,815	5,834	5,108	1.7	2.1	1.7
Mixed Grain.....	618	382	811	.2	0.1	0.3
Corn.....	114	362	344	*	0.1	0.1
Buckwheat.....	33	157	174	*	*	*
Screenings.....	461	328	375	.2	0.1	0.1
Sunflower Seeds.....	12	—	1	*	*	*
Rapeseed.....	17	173	151	*	*	*
Peas.....	73	162	148	*	*	*
Soybeans.....	1	1	—	*	*	*
Totals.....	292,052	278,338	304,599	100.0	100.0	100.0

*Less than 0.05%

Table E-2.—Primary Carlot Inspections by Points, Crop Year 1954-55, compared with 1953-54 and 10-year Average 1944-45 to 1953-54

	10-Year Average	1954-55	1953-54	10-Year Average	1954-55	1953-54
	Carlots			Percent of total		
Winnipeg.....	213,127	188,666	197,787	73.0	67.8	65.0
Calgary.....	31,323	39,930	47,162	10.7	14.3	15.5
Edmonton.....	28,093	25,830	36,729	9.6	9.3	12.1
Moose Jaw.....	4,915	4,697	4,239	1.7	1.7	1.4
Saskatoon.....	6,620	8,463	8,615	2.3	3.0	2.8
Lethbridge.....	148	40	16	*	*	*
Medicine Hat.....	3,680	2,814	2,548	1.3	1.1	0.8
Vancouver.....	1,052	685	961	.4	0.2	0.3
Churchill.....	† 3,094	7,213	6,542	1.0	2.6	2.1
Totals.....	292,052	278,338	304,599	100.0	100.0	100.0

*Less than 0.05%.

†Cars inspected during last eight years only.

BOARD OF GRAIN COMMISSIONERS

Table E-3.—Primary Carlot Inspections, Crop Year 1954-55, by Grain and Grades

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT			
1 Manitoba Northern.....	7,595	4.4	—
2 Manitoba Northern.....	63,406	37.2	—
3 Manitoba Northern.....	46,818	27.5	—
4 Manitoba Northern.....	14,645	8.6	—
No. 4 Special.....	115	0.1	—
No. 5.....	7,912	4.6	—
No. 5 Special.....	86	*	—
No. 6.....	3,860	2.3	—
No. 6 Special.....	2	*	—
Feed.....	1,778	1.0	—
Sample.....	87	*	—
Smutty.....	124	0.1	—
Rejected.....	3,536	2.2	—
Tough.....	20,069	11.8	—
Damp.....	414	0.2	—
Others.....	3	*	—
Total Red Spring Wheat.....	170,450	100.0	96.1
1 Canada Western Garnet.....	1	*	—
2 Canada Western Garnet.....	216	8.7	—
3 Canada Western Garnet.....	1,318	52.9	—
4 Canada Western Garnet.....	44	1.8	—
Smutty Canada Western Garnet.....	1	*	—
Tough Canada Western Garnet.....	875	35.2	—
Damp Canada Western Garnet.....	10	0.4	—
Rejected Canada Western Garnet.....	24	1.0	—
Total Garnet Wheat.....	2,489	100.0	1.4
1 Canada Western Amber Durum.....	5	0.1	—
2 Canada Western Amber Durum.....	63	1.9	—
3 Canada Western Amber Durum.....	1,669	50.7	—
4 Canada Western Amber Durum.....	924	28.2	—
5 Canada Western Amber Durum.....	318	9.7	—
6 Canada Western Amber Durum.....	159	4.8	—
Smutty Canada Western Amber Durum.....	3	0.1	—
Rejected Canada Western Amber Durum.....	81	2.5	—
Tough Canada Western Amber Durum.....	52	1.6	—
Damp Canada Western Amber Durum.....	1	*	—
Sample Canada Western Amber Durum.....	16	0.4	—
Total Amber Durum Wheat.....	3,291	100.0	1.9
1 Canada Western Soft White Spring.....	23	15.0	—
2 Canada Western Soft White Spring.....	87	57.0	—
3 Canada Western Soft White Spring.....	27	17.6	—
4 Canada Western Soft White Spring.....	9	5.8	—
Rejected Canada Western Soft White Spring.....	3	2.0	—
Tough Canada Western Soft White Spring.....	4	2.6	—
Total Soft White Spring Wheat.....	153	100.0	0.1
1 Canada Western Mixed Wheat.....	11	13.4	—
2 Canada Western Mixed Wheat.....	3	3.8	—
3 Canada Western Mixed Wheat.....	21	25.6	—
4 Canada Western Mixed Wheat.....	11	13.4	—
5 Canada Western Mixed Wheat.....	20	24.4	—
6 Canada Western Mixed Wheat.....	7	8.5	—
Smutty Canada Western Mixed Wheat.....	2	2.4	—
Rejected Canada Western Mixed Wheat.....	5	6.1	—
Tough Canada Western Mixed Wheat.....	1	1.2	—
Damp Canada Western Mixed Wheat.....	1	1.2	—
Total Mixed Wheat.....	82	100.0	—

TRADE AND COMMERCE

Table E-3.—Primary Carlot Inspections, Crop Year 1954-55, by Grain and Grades—Cont'd

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT—Concluded			
1 Alberta Red Winter.....	148	17.9	—
2 Alberta Winter.....	410	49.5	—
3 Alberta Winter.....	111	13.4	—
4 Alberta Winter.....	11	1.3	—
Smitty Alberta Winter.....	10	1.2	—
Rejected Alberta Winter.....	21	2.5	—
Tough Alberta Winter.....	65	7.9	—
Damp Alberta Winter.....	52	6.3	—
Total Alberta Winter Wheat.....	828	100.0	0.5
Total All Wheats.....	177,293	—	100.0

Grade	Carlots	Percentage
OATS		
2 Canada Western.....	47	0.2
Extra 3 Canada Western.....	390	1.3
3 Canada Western.....	3,285	11.2
Extra 1 Feed.....	4,010	13.6
1 Feed.....	14,469	49.2
2 Feed.....	2,485	8.4
3 Feed.....	401	1.4
Mixed Feed Oats.....	10	*
Rejected Oats.....	196	0.7
Sample Oats.....	115	0.4
Tough.....	3,996	13.6
Damp.....	13	*
Mixed Feed Oats Groats.....	3	*
Total Oats.....	29,420	100.0

BARLEY		
1 Canada Western Six Row.....	3	*
2 Canada Western Six Row.....	307	0.5
3 Canada Western Six Row.....	9,646	17.0
4 Canada Western Six Row.....	570	1.0
1 Canada Western Two Row.....	1	*
2 Canada Western Two Row.....	37	0.1
3 Canada Western Two Row.....	1,474	2.6
1 Feed.....	12,787	22.6
2 Feed.....	9,728	17.2
3 Feed.....	1,732	3.0
Rejected.....	155	0.3
Sample.....	30	0.1
Tough.....	19,583	34.6
Damp.....	580	1.0
Total Barley.....	56,633	100.0

BOARD OF GRAIN COMMISSIONERS

Table E-3.—Primary Carlot Inspections, Crop Year 1954-55, by Grain and Grades—Cont'd

Grade	Carlots	Percentage
RYE		
1 Canada Western.....	9	0.1
2 Canada Western.....	1,458	19.3
3 Canada Western.....	4,033	53.1
4 Canada Western.....	190	2.5
Ergoty Rye.....	179	2.4
Rejected.....	16	0.1
Sample.....	2	*
Tough.....	1,697	22.4
Damp.....	6	0.1
Others.....	3	*
Total Rye.....	7,593	100.0
FLAXSEED		
1 Canada Western.....	3,198	54.8
2 Canada Western.....	1,297	22.2
3 Canada Western.....	240	4.1
4 Canada Western.....	6	0.1
Sample.....	8	0.1
Tough.....	1,032	17.8
Damp.....	48	0.8
Flax and Broken Grain.....	5	0.1
Total Flaxseed.....	5,834	100.0
MIXED GRAIN		
1 Canada Western.....	48	12.6
2 Canada Western.....	29	7.6
3 Canada Western.....	130	34.0
4 Canada Western.....	29	7.6
Rejected.....	19	5.0
Sample.....	67	17.5
Tough.....	59	15.4
Damp.....	1	0.3
Total Mixed Grain.....	382	100.0
CORN		
1 Canada Western Yellow.....	2	0.6
2 Canada Western Yellow.....	15	4.1
3 Canada Western Yellow.....	21	5.8
4 Canada Western Yellow.....	8	2.2
5 Canada Western Yellow.....	13	3.6
Tough.....	5	1.3
Damp.....	1	0.3
Moist.....	2	0.6
Wet.....	2	0.6
U.S.A. Origin.....	291	80.3
Others.....	2	0.6
Total Corn.....	362	100.0
Buckwheat.....	157	—
Screenings.....	328	—
Rapeseed.....	173	—
Peas.....	162	—
Soybeans.....	1	—
Grand Total.....	278,338	—

*Less than 0.05%.

TRADE AND COMMERCE

Table E-4.—Carlots of Tough, Damp and Straight Grain Inspected at Primary Inspection Points, Crop Year 1954-55

Grain	Tough	Damp	Tough and Damp	Straight	Total
Wheat.....	21,066	478	21,544	155,749	177,293
Oats.....	3,996	13	4,009	25,411	29,420
Barley.....	19,583	580	20,163	36,470	56,633
Rye.....	1,697	6	1,703	5,890	7,593
Flaxseed.....	1,032	48	1,080	4,754	5,834
Others.....	64	2	66	1,499	1,565
All Grains.....	47,438	1,127	48,565	229,773	278,338
PERCENTAGE OF TOTAL					
	%	%	%	%	%
Wheat.....	11.9	0.3	12.2	87.8	100.0
Oats.....	13.6	*	13.6	86.4	100.0
Barley.....	34.6	1.0	35.6	64.4	100.0
Rye.....	22.3	0.1	22.4	77.6	100.0
Flaxseed.....	17.7	0.8	18.5	81.5	100.0
Others.....	4.1	0.1	4.2	95.8	100.0
All Grains.....	17.0	0.4	17.4	82.6	100.0

*Less than 0.05%.

Table E-5.—Number of Two Pound Samples "Subject to Grade and Dockage" Inspected Crop Year 1954-55 Compared with the Crop Year 1953-54

Point	1954-55	1953-54
	Number of Samples	
Winnipeg.....	9,053	6,797
Calgary.....	1,130	997
Edmonton.....	817	813
Moose Jaw.....	133	110
Saskatoon.....	715	859
Lethbridge.....	907	506
Medicine Hat.....	55	13
Totals.....	12,810	10,095

BOARD OF GRAIN COMMISSIONERS

Table E-6.—Carlots Re-inspected, Crop Year 1954-55

Point	In- spected	Re-in- spected	Un- changed	Grades Raised	Grades Lowered	Dockage Raised	Dockage Lowered
Number of Carlots							
Winnipeg	188,666	13,445	6,965	3,173	524	430	2,353
Calgary	39,930	4,690	1,617	1,812	67	247	947
Edmonton	25,830	5,135	2,041	1,293	64	143	1,594
Saskatoon	8,463	342	316	26	—	—	—
Moose Jaw	4,697	445	398	46	—	1	—
Medicine Hat	2,814	25	7	16	2	—	—
Lethbridge	40	2	1	1	—	—	—
Vancouver	685	461	410	49	2	—	—
Churchill	7,213	—	—	—	—	—	—
Totals	278,338	24,545	11,755	6,416	659	821	4,894
Percentage of Re-inspections							
	%	%	%	%	%	%	%
Winnipeg	—	100	51.8	23.6	3.9	3.2	17.5
Calgary	—	100	34.5	38.6	1.4	5.3	20.2
Edmonton	—	100	39.7	25.2	1.2	2.8	31.1
Saskatoon	—	100	92.4	7.6	—	—	—
Moose Jaw	—	100	89.5	10.3	—	0.2	—
Medicine Hat	—	100	28.0	64.0	8.0	—	—
Lethbridge	—	100	50.0	50.0	—	—	—
Vancouver	—	100	88.9	10.6	0.5	—	—
Churchill	—	100	—	—	—	—	—
Totals	—	100	47.9	26.1	2.8	3.3	19.9
Percentage of Total Inspections							
	%	%	%	%	%	%	%
Winnipeg	100	7.1	3.7	1.7	0.3	0.2	1.2
Calgary	100	11.7	4.0	4.5	0.2	0.6	2.4
Edmonton	100	19.9	7.9	5.0	0.2	0.6	6.2
Saskatoon	100	4.0	3.7	0.3	—	—	—
Moose Jaw	100	9.5	8.5	1.0	—	—	—
Medicine Hat	100	0.9	0.2	0.6	0.1	—	—
Lethbridge	100	5.0	2.5	2.5	—	—	—
Vancouver	100	67.3	59.9	7.2	0.3	—	—
Churchill	100	—	—	—	—	—	—
Totals	100	8.8	4.2	2.3	0.2	0.3	1.8

Table E-7.—Summary of Carlot Inspections Appealed, Crop Year 1954-55

Item	Winnipeg		Edmonton		Calgary		Total	
	Cars	Percent	Cars	Percent	Cars	Percent	Cars	Percent
Left as Graded	593	94.1	186	84.9	492	82.5	1,271	88.0
Grades Raised	36	5.7	32	14.6	100	16.8	168	11.6
Grades Lowered	1	0.2	1	0.5	4	.7	6	.4
Totals	630	100.0	219	100.0	596	100.0	1,445	100.0
Total Cars Inspected							278,338	100.00
Total Appeals							1,445	0.52
Total Grades Changed							174	0.06

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Table E-8.—Vessel Shipments Inspected, Crop Year 1954-55

Grain	Fort William and Port Arthur	Vancouver	Victoria	Prince Rupert	Churchill	Total
	bu.	bu.	bu.	bu.	bu.	bu.
Wheat.....	164,633,346	78,176,392	1,410,080	314,796	12,094,893	256,629,507
Oats.....	46,627,759	3,682,891	—	—	—	50,310,650
Barley.....	82,087,173	9,636,382	—	4,888,847	—	96,612,402
Rye.....	10,804,173	—	—	—	—	10,804,173
Flaxseed.....	5,723,092	318,412	—	—	—	6,041,504
Buckwheat.....	128,230	—	—	—	—	128,230
*Sample Grain....	102,724	—	—	—	—	102,724
*Screenings.....	3,119,578	4,200	—	—	—	3,123,778
*Canada Rapeseed	—	154,366	—	—	—	154,366
Totals.....	313,226,075	91,972,643	1,410,080	5,203,643	12,094,893	423,907,334

*In Bushels of 50 pounds.

Table E-9.—Carlot Shipments ex Terminal Elevators Inspected, Crop Year 1954-55

Grain	Winnipeg	Fort William and Port Arthur	Calgary	Edmonton	Moose Jaw
Number of Carlots					
Wheat.....	707	1,250	328	282	447
Oats.....	1,084	4,254	19	71	251
Barley.....	435	5,035	1,034	41	17
Flaxseed.....	25	1,638	54	71	7
Rye.....	14	280	12	—	4
Mixed Grain.....	107	—	48	—	2
Corn.....	5	—	—	—	—
Buckwheat.....	5	43	—	—	—
Peas.....	47	—	—	—	—
Soybeans.....	—	—	—	—	—
Sunflower Seeds.....	—	—	—	—	—
Screenings.....	378	2,853	203	44	63
Sample Grain.....	—	179	—	—	—
Totals.....	2,807	15,532	1,698	509	791
Grain	Saskatoon	Lethbridge	Medicine Hat	Vancouver, Victoria and Prince Rupert	Churchill
Wheat.....	1,832	4	14	814	—
Oats.....	158	—	1	408	31
Barley.....	19	—	—	178	—
Flaxseed.....	20	8	25	9	—
Rye.....	4	—	—	—	—
Mixed Grain.....	8	—	—	37	—
Corn.....	—	—	—	—	—
Buckwheat.....	—	—	—	—	—
Peas.....	—	—	—	—	—
Soybeans.....	—	—	—	—	—
Sunflower Seeds.....	—	—	—	—	—
Screenings.....	418	2	4	1,019	103
Rapeseed.....	70	—	—	—	—
Totals.....	2,529	14	44	2,465	134

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EASTERN DIVISION

Table E-10.—Carlot Inspections Eastern Grain, Crop Year 1954-55, by Grains and Points

Grain	Montreal	Toronto	Chatham	Total
	Carlots			
Wheat.....	8	399	2,353	2,760
Oats.....	—	—	10	10
Barley.....	19	79	554	652
Rye.....	—	1	36	37
Buckwheat.....	2	—	2	4
Corn.....	2	1	5,048	5,051
Beans.....	1	—	233	234
Soybeans.....	2	182	1,573	1,757
Flaxseed.....	—	12	—	12
Totals.....	34	674	9,809	10,517

Table E-11.—Carlot Inspections Eastern Grain, Crop Year 1954-55, by Grains, Grades and Points

Grade	Montreal	Toronto	Chatham	Total
	Carlots			
WHEAT				
1 Canada Eastern White Winter	—	40	1,048	1,088
2 Canada Eastern White Winter	5	93	345	443
3 Canada Eastern White Winter	—	2	13	15
1 Canada Eastern Red Winter	—	—	4	4
2 Canada Eastern Red Winter	—	—	1	1
1 Canada Eastern Mixed Winter	—	9	576	585
2 Canada Eastern Mixed Winter	2	5	85	92
3 Canada Eastern Mixed Winter	—	—	4	4
Tough	—	228	173	401
Smutty	1	11	18	30
Damp	—	3	2	5
Sample	—	8	69	77
Condemned	—	—	15	15
Totals, Wheat	8	399	2,353	2,760

OATS

2 Canada Eastern White.....	—	—	1	1
3 Canada Eastern.....	—	—	6	6
4 Canada Eastern.....	—	—	2	2
Sample.....	—	—	1	1
Totals Oats.....	—	—	10	10

BARLEY

2 Canada Eastern Six Row.....	—	2	36	38
3 Canada Eastern Six Row.....	—	61	417	478
4 Canada Eastern.....	16	—	7	23
5 Canada Eastern.....	—	3	2	5
Tough.....	—	8	91	99
Sample.....	3	5	1	9
Totals, Barley.....	19	79	554	652

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Table E-11.—Carlot Inspections Eastern Grain, Crop Year 1954-55, by Grains, Grades and Points —Continued

Grade	Montreal	Toronto	Chatham	Total
	Carlots			
RYE				
1 Canada Eastern	—	—	3	3
2 Canada Eastern	—	—	19	19
3 Canada Eastern	—	—	3	3
Tough	—	1	11	12
Totals, Rye	—	1	36	37
BUCKWHEAT				
Tough	1	—	1	2
Sample	1	—	1	2
Totals, Buckwheat	2	—	2	4
CORN				
Extra Dry 1 Canada Eastern Yellow	—	—	741	741
1 Canada Eastern Yellow	—	1	782	783
Extra Dry 2 Canada Eastern Yellow	—	—	307	307
2 Canada Eastern Yellow	2	—	913	915
Extra Dry 3 Canada Eastern Yellow	—	—	155	155
3 Canada Eastern Yellow	—	—	278	278
Extra Dry 4 Canada Eastern Yellow	—	—	21	21
4 Canada Eastern Yellow	—	—	22	22
Extra Dry 5 Canada Eastern Yellow	—	—	5	5
5 Canada Eastern Yellow	—	—	4	4
Tough	—	—	510	510
Damp	—	—	203	203
Moist	—	—	734	734
Wet	—	—	361	361
Sample	—	—	11	11
Extra Dry 2 Canada Eastern Mixed	—	—	1	1
Totals, Corn	2	1	5,048	5,051
BEANS				
1 Canada Eastern Pea	—	—	55	55
2 Canada Eastern Pea	—	—	72	72
3 Canada Eastern Pea	—	—	10	10
4 Canada Eastern Pea	—	—	1	1
Tough	—	—	76	76
Damp	—	—	14	14
Moist	—	—	1	1
Sample	1	—	4	5
Totals, Beans	1	—	233	234

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**Table E-11.—Carlott Inspections Eastern Grain, Crop Year 1954-55, by Grains,
Grades and Points—Concluded**

Grade	Montreal	Toronto	Chatham	Total
Carlots				
SOYBEANS				
Canada Yellow.....	—	19	95	114
Canada Yellow.....	—	14	182	196
Canada Yellow.....	—	13	95	108
Canada Yellow.....	—	11	59	70
Canada Yellow.....	—	4	29	33
ough.....	2	68	602	672
amp.....	—	44	321	365
loist.....	—	5	112	117
Vet.....	—	—	25	25
ample.....	—	4	53	57
Totals, Soybeans.....	2	182	1,573	1,757
FLAXSEED				
Canada Eastern.....	—	5	—	5
Canada Eastern.....	—	1	—	1
ough.....	—	6	—	6
Totals, Flaxseed.....	—	12	—	12
Totals, All Grains.....	34	674	9,809	10,517

Table E-12.—Cargo Inspections Eastern Grain, Crop Year 1954-55

Grain	West St. John	Montreal	Toronto	Chatham	Total
	bu.	bu.	bu.	bu.	bu.
Wheat.....	—	114,638	231,015	1,652,211	1,997,864
Barley.....	14,112	—	—	—	14,112
Buckwheat.....	—	83,147	—	—	83,147
Corn.....	—	146,619	—	1,958,983	2,105,602
Soybeans.....	41,877	506,729	202,094	649,109	1,399,809
Totals.....	55,989	851,133	433,109	4,260,303	5,600,534

Table E-13.—Inspections—Eastern Grain in Bins or Warehouses, Crop Year 1954-55

Grain	Quebec	Montreal	Toronto	Chatham	Total
	bu.	bu.	bu.	bu.	bu.
Wheat.....	19,289	283,234	—	—	302,523
Oats.....	—	18,834	—	—	18,834
Rye.....	—	—	—	1,000	1,000
Corn.....	—	—	—	3,500	3,500
Beans.....	—	—	—	79,371	79,371
Soybeans.....	—	—	—	1,234	1,234
Totals.....	19,289	302,068	—	85,105	406,462

TRADE AND COMMERCE

Table E-14.—Inward and Export Cargoes Sampled and Grade Checked,
Crop Year 1954-55

—	Montreal	Sorel	Three Rivers	Quebec	Halifax and St. John	Total
	bu.	bu.	bu.	bu.	bu.	bu.
EASTERN GRAIN						
Inward.....	3,362,508	—	—	—	—	3,362,508
Export.....	3,164,781	—	—	28,248	135,148	3,328,177
WESTERN GRAIN						
Inward.....	94,823,252	313,755	—	—	—	95,137,007
Export.....	91,212,392	13,335,316	12,836,854	11,449,702	39,088,484	167,922,748
U.S. GRAIN						
Inward.....	6,262,600	—	—	—	—	6,262,600
Export.....	3,623,902	—	—	—	—	3,623,902
SOUTH AFRICAN GRAIN						
Inward.....	936,700	—	—	—	—	936,700
Totals....	203,386,135	13,649,071	12,836,854	11,477,950	39,223,632	280,573,642

Table E-15.—Grain Sampled But Not Inspected, Crop Year 1954-55

—	Montreal	Toronto	Chatham	Total
EASTERN GRAIN				
Carlots.....	35	—	27	62
Inward Cargoes..... (bu.)	193,178	—	—	193,178
Outward Cargoes..... (bu.)	54,164	—	—	54,164
Bin lots..... (bu.)	95,447	—	—	95,447
WESTERN GRAIN				
Carlots.....	37	3	836	876
Export Cargoes..... (bu.)	2,108,079	—	—	2,108,079
Bin lots..... (bu.)	16,563	350,000	—	366,563
FOREIGN GRAIN				
South African..... (bu.)	1,127,150	—	—	1,127,150
U.S.A..... (bu.)	260,314	—	—	260,314
Totals—Cars.....	72	3	863	938
Bushels.....	3,854,895	350,000	—	4,204,895

APPENDIX F

Grain Weighing Branch

J. J. MANSON, *Chief Grain Weighmaster*

Under the provisions of Sections 33 and 124 of the Canada Grain Act, all grain received at or shipped from licensed terminal elevators is weighed by the Board's weighing staffs. The same weighing service is also provided at licensed mill elevators as may be required by licensees.

During the Crop Year 1954-55 weighing service was provided at 47 public, semi-public and private terminal elevators in the Western Division, as well as at 32 mill elevators. In the Eastern Division at 9 eastern elevators, local weighmen were authorized to weigh and issue official weight certificates on truck and car lots shipped from these elevators.

All scales and the equipment for transferring grain from and to the scales in all licensed eastern, terminal and mill elevators were regularly inspected during the crop year under the provisions of section 92 of the Act. In accordance with the special arrangement with the Standards Branch of the Department of Trade and Commerce, all weighing machines in licensed terminal and eastern elevators were inspected, verified and stamped once in the year by the Chief Grain Weighmaster or the Board's scale expert, acting as inspectors under the Weights and Measures Act.

New installations of dust-control equipment in terminal and eastern elevators were inspected to ensure that such equipment did not affect the weighing of the grain received at or shipped from these elevators.

During the crop year under review, 282,500 car lots of grain were weighed on receipt at terminal and mill elevators in the Western Division, and of these car lots, 59,080 or 20.9 per cent were reported leaking, and 5,306 or 1.8 per cent were without seals or had defective seals.

Outturns at Eastern elevators of vessel shipments from the Lakehead were closely checked and investigations made in case of excessive shortages with a view to assessing liability in cases where such could be established.

The stocks in store in 30 terminal elevators and 27 Eastern elevators were weighed over during the crop year in accordance with the provisions of sections 139 and 140 of the Canada Grain Act.

The following tables summarize the grain weighed and other information relating to the work of the Branch.

Table F-1.—Gross Quantities of All Grains Weighed at Terminal Elevators in the Western Division during 1954-55 Crop Year

Point	Wheat	Oats	Barley	Rye	Flaxseed	Canadian Corn	Canadian Buckwheat	U.S.A. Wheat	U.S.A. Barley	U.S.A. Corn	Canadian Miscellaneous
	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	lbs.
RECEIPTS											
Fort William-Port Arthur..	159,114,013	59,907,125	95,684,179	13,653,962	9,636,052	—	201,911	—	—	—	45,395,421
Vancouver-New											
Westminster.....	82,752,813	4,202,959	10,474,967	—	335,183	—	—	—	—	—	13,832,185
Victoria.....	1,805,085	3,194	—	—	—	—	—	—	—	—	—
Prince Rupert.....	159,399	—	5,160,199	—	—	—	—	—	—	—	—
Churchill.....	12,526,804	222	—	—	—	—	—	—	—	—	—
Calgary.....	876,377	4,903	1,269,920	40,069	108,211	—	—	—	—	—	8,520
Edmonton.....	526,471	145,227	70,884	—	143,555	1,963	—	—	—	10,256	3,680
Lethbridge.....	6,243	—	—	—	14,219	—	—	—	—	—	—
Moose Jaw.....	601,794	362,996	7,142	3,335	1,713	—	—	—	—	—	—
Saskatoon.....	583,214	66,115	—	—	20,006	—	—	—	—	—	11,341,200
North Transcona.....	286,488	24,540	63,344	17,746	9,341	—	—	—	—	—	6,392,200
Total Receipts.....	259,238,701	64,717,281	112,730,635	13,715,112	10,268,280	1,963	201,911	—	—	10,256	76,973,206
SHIPMENTS											
Fort William-Port Arthur..	166,658,502	56,129,482	93,262,243	11,359,745	9,040,174	—	201,578	—	—	—	401,867,284
Vancouver-New											
Westminster.....	79,745,536	4,869,880	9,995,428	—	334,451	—	—	—	—	—	105,218,210
Victoria.....	1,410,714	26,007	845	—	—	—	—	—	—	—	2,854,500
Prince Rupert.....	314,796	—	4,888,847	—	—	—	—	—	—	—	2,877,560
Churchill.....	12,245,586	79,293	—	—	—	—	—	—	—	—	6,551,678
Calgary.....	475,604	5,197	1,440,540	23,504	92,647	—	—	—	—	—	889,570
Edmonton.....	480,884	149,163	72,406	—	124,626	2,683	—	—	8,421	—	1,547,170
Lethbridge.....	6,134	—	—	—	12,071	—	—	—	—	—	113,770
Moose Jaw.....	563,853	362,422	7,142	3,335	1,713	—	—	—	—	—	1,041,040
Saskatoon.....	1,136,508	70,684	—	—	19,983	—	—	—	—	—	12,178,462
North Transcona.....	183,774	34,959	64,076	17,746	9,341	—	—	—	—	—	7,600,030
Total Shipments.....	263,221,891	61,727,087	109,731,527	11,404,330	9,635,006	2,683	201,578	—	—	8,421	542,739,274

BOARD OF GRAIN COMMISSIONERS

Table F-2.—Number of Cars Leaking and Cars with Missing Seals at the Lakehead, at Other Points and at Winnipeg Yards, by Railways for the Crop Year 1954-55

Destination	Cars Leaking		Missing Seals	
	C.N.R.	C.P.R.	C.N.R.	C.P.R.
Lakehead Elevators and Yards.....	18,544	25,487	952	2,103
Other Points.....	6,159	8,890	668	1,583
Totals.....	24,703	34,377	1,620	3,686
Totals Both Railways.....	59,080		5,306	
Winnipeg Yards.....	1,706	2,340	782	1,436

Table F-3.—Number of Cars Weighed at all Points and Percentage of such Cars found Leaking or with Defective Seals, Crop Years 1953-54 and 1954-55

	Number		Percentage of Total	
	1954-55	1953-54	1954-55	1953-54
Cars Weighed in.....	282,500	307,591	100.0	100.0
Inward Cars Leaking.....	59,080	58,324	20.9	18.9
Inward Cars with Missing or Defective Seals....	5,306	5,760	1.8	1.9
Cars Weighed Out.....	27,711	27,596	—	—

Table F-4.—Average Reported Outturn Shortages on Vessel Shipments of Grain from Fort William-Port Arthur to Canadian and United States ports during the 1954-55 Crop Year.

Grain	Bushels Shipped	Shortage in Pounds per 1,000 Bushels
CANADIAN PORTS		
Wheat.....	151,496,110	30.4
Durum Wheat.....	5,093,270	35.3
Oats.....	36,124,846	18.1
Barley.....	62,918,867	31.5
Rye.....	7,744,359	43.8
Flaxseed.....	5,741,783	31.3
Buckwheat.....	128,231	38.6
Sample Grain (in lbs.).....	3,996,400	2.0 lbs. per 1,000 lbs.
Screenings (in tons).....	25,566	1.6 lbs. per ton
UNITED STATES PORTS		
Wheat.....	4,431,606	68.7
Oats.....	10,202,378	49.1
Barley.....	19,291,405	41.0
Rye.....	3,037,563	52.0
Screenings (in tons).....	52,423	—
TOTAL CANADIAN AND UNITED STATES PORTS		
Wheat.....	155,927,716	31.6
Durum Wheat.....	5,093,270	35.3
Oats.....	46,327,224	24.9
Barley.....	82,210,272	35.8
Rye.....	10,781,922	46.1
Flaxseed.....	5,741,783	31.3
Buckwheat.....	128,231	38.6
Sample Grain (in lbs.).....	3,996,400	2.0 lbs. per 1,000 lbs.
Screenings (in tons).....	77,989	.5 lbs. per ton

APPENDIX G

Statistics Branch

E. E. BAXTER, *Chief Statistician*

The Statistics Branch collects, compiles and publishes basic statistics relating to the storage and handling of grain in and between those Canadian elevators licensed under the Canada Grain Act. It prepares audit statements of the operations of all terminal and eastern elevators, verifies the insurance carried on grain stocks, supplies for review by the Board a detailed analysis of country elevator operations and co-operates with other Board offices in the maintenance of detailed records of principal operations.

During 1954-55 there were no major changes in the form or context of the bulletins issued by the office but a further expansion was recorded in their distribution. A substantial increase was experienced in the volume of special requests for particular statistics on stocks and handlings. This phase of the Branch's operations has been expanding quite rapidly during the past two years as trade and other officials have become more aware of the facilities available and as the new machine accounting equipment has permitted greater flexibility of existing records.

The new equipment has enabled the Branch to expand its services as a records unit for other Branches and this work will be gradually developed in the coming year in furtherance of the program of concentration of clerical work on records within the Statistics office.

In accordance with provisions of the "Inland Water Freight Rates Act 1923" copies of vessel charter confirmations for all lake grain cargoes shipped from Fort William-Port Arthur during the 1955 season of navigation were filed by shippers with this office. Reports covering the cargoes of 999 vessels and a total load of 262.5 million bushels of the five principal grains were received for the season which opened on April 16 and closed on December 15, 1955. Rates on these cargoes were quite steady over the season and all held below the maximum allowable charges under the Act.

All grain audit statements required in connection with the weighup during the year of grain in Terminal and Eastern elevators by the Inspection and Weighing Branches of the Board under authority of sections 139 and 140 of the Canada Grain Act were compiled.

As required under section 102 of the Canada Grain Act, insurance policies on in-store grain have been filed by licensees of public country, semi-public terminal and eastern elevators. These policies have been scrutinized and regular insurance valuation reports checked to ensure adequate protection to owners of stored grain.

In compliance with section 21 of the Canada Grain Act, grain price records for the principal grain markets have been maintained in this office and regular statements covering price statistics have been released throughout the year.

Annual returns covering the operations of 5,075 country elevators during the crop year 1954-55, required under the Board's Regulation No. 17, were checked and tabulated and detailed analytical statements submitted to the Board. A new reporting procedure was instituted for those country elevators completely weighed over.

Certain principal grain statistics for the 1954-55 crop year and the 1955 season of navigation are presented in the tables which follow. The Branch's annual export publication "Canadian Grain Exports—1954-55" was released early in December, 1955. The basic reference statistics covering the 1954-55 crop year will be carried in "Grain Trade of Canada 1954-55", the joint publication of this office and the Agriculture Division of the Dominion Bureau of Statistics.

BOARD OF GRAIN COMMISSIONERS

Table G-1.—Supply and Disposition of Canadian Grain, Crop Year 1954-55

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
SUPPLY					
Carry-over July 31, 1954.....	601,675,202	125,768,957	145,910,370	19,285,477	2,577,712
Production in 1954.....	308,909,000	306,793,000	175,509,000	14,176,000	11,238,000
Total Supply.....	910,584,202	432,561,957	321,419,370	33,461,477	13,815,712
DISPOSITION					
Exported Overseas.....	247,341,580	7,436,954	58,006,659	7,472,577	6,345,378
Exported to U.S.A.....	4,458,495	14,810,535	19,085,619	1,838,833	—
Consumed in Canada*.....	159,797,791	326,436,462	152,896,478	5,671,529	6,236,270
Total Disposition*.....	411,597,866	348,683,951	229,988,756	14,982,939	12,581,648
CARRY-OVER (July 31, 1955)					
On Farms (estimated).....	100,855,000	53,400,000	42,310,000	10,180,000	325,000
In Country, Private Terminal and Mill Elevators.....	228,839,035	17,081,557	33,640,122	3,219,413	105,215
In Public and Semi-Public Terminal Elevators.....	66,782,837	7,045,137	9,190,404	3,245,395	244,877
In Store at and Afloat to Eastern Elevators.....	77,046,448	4,245,109	3,862,447	1,081,922	500,534
In Eastern Flour Mills*.....	2,146,000	218,000	101,000	4,000	—
In Transit by Rail—Eastern and Western Divisions.....	22,905,938	1,888,203	2,326,641	657,258	58,438
In Store and in Transit to the United States.....	411,078	—	—	90,550	—
Total in Store July 31, 1955*	498,986,336	83,878,006	91,430,614	18,478,538	1,234,064

*Subject to revision.

TRADE AND COMMERCE

Table G-2.—Production and Producers' Marketings in Western Canada, by Provinces, Crop Year 1954-55

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
PRODUCTION (DBS estimate)					
Manitoba.....	26,000,000	36,000,000	44,000,000	1,479,000	4,000,000
Saskatchewan.....	151,000,000	86,000,000	53,000,000	6,700,000	4,800,000
Alberta and British Columbia..	106,750,000	77,967,000	72,337,000	4,100,000	2,250,000
Totals.....	283,750,000	199,967,000	169,337,000	12,279,000	11,050,000
PRODUCERS' MARKETINGS					
(a) At Country Elevators					
Manitoba.....	24,141,745	13,990,900	34,460,782	1,533,296	3,103,320
Saskatchewan.....	197,481,977	37,245,079	41,269,823	7,439,989	3,696,000
Alberta.....	94,843,416	18,158,566	36,405,333	4,095,665	1,652,730
Totals.....	316,467,138	69,394,545	112,135,938	13,068,950	8,452,060
(b) At Public and Semi-Public Terminals					
Manitoba.....	1,435	1,847	7,548	—	—
Saskatchewan.....	—	—	—	—	—
Alberta.....	1,484	132,895	58,306	—	2,050
Totals.....	2,919	134,742	65,854	—	2,050
(c) At Interior Private and Mill Elevators					
Manitoba.....	797,021	64,787	69,491	—	174,970
Saskatchewan.....	786,582	222,477	82,575	13,141	9,620
Alberta.....	1,545,311	375,683	178,876	77,705	116,550
Totals.....	3,128,914	662,947	330,942	90,846	301,150
(d) Loaded over Platforms					
Manitoba.....	46,174	19,520	5,389	—	4,060
Saskatchewan.....	68,281	2,050	14,517	4,212	32,670
Alberta.....	66,257	7,100	14,995	26,513	—
Totals.....	180,712	28,670	34,901	30,725	36,740
Total Producers' Marketings					
Manitoba.....	24,986,375	14,077,054	34,543,210	1,533,296	3,282,360
Saskatchewan.....	198,336,840	37,469,606	41,366,915	7,457,342	3,738,300
Alberta.....	96,456,468	18,674,244	36,657,510	4,199,883	1,771,330
Totals.....	319,779,683	70,220,904	112,567,635	13,190,521	8,792,000

BOARD OF GRAIN COMMISSIONERS

Table G-3.—Receipts and Shipments of Canadian Grain at Terminal Elevators, Crop Year 1954-55

	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
Fort William-Port Arthur—					
Receipts	154,256,151	58,539,130	90,608,913	12,954,084	8,481,155
Shipments	166,211,622	55,454,598	89,645,689	10,979,817	8,868,619
Vancouver-New Westminster—					
Receipts	79,959,175	3,969,678	10,273,890	—	318,895
Shipments	78,952,042	4,801,275	9,924,939	—	318,503
Victoria—					
Receipts	1,759,340	3,115	—	—	—
Shipments	1,410,713	26,006	845	—	—
Prince Rupert—					
Receipts	154,138	—	5,083,260	—	—
Shipments	314,796	—	4,888,847	—	—
Churchill—					
Receipts	12,279,682	222	—	—	—
Shipments	12,245,586	79,293	—	—	—
Transcona—					
Receipts	283,575	24,497	63,228	17,746	9,341
Shipments	183,774	34,959	64,076	17,746	9,341
Calgary—					
Receipts	854,140	4,903	1,269,280	40,046	92,646
Shipments	475,604	5,197	1,440,540	23,505	91,249
Edmonton—					
Receipts	511,892	144,859	70,753	—	123,227
Shipments	480,885	149,163	72,406	—	123,227
Lethbridge—					
Receipts	6,243	—	—	—	12,022
Shipments	6,134	—	—	—	11,896
Moose Jaw—					
Receipts	580,957	362,776	7,141	3,335	1,714
Shipments	563,853	362,422	7,141	3,335	1,714
Saskatoon—					
Receipts	552,530	66,081	—	—	19,983
Shipments	1,136,508	70,684	—	—	19,983
Total Receipts	251,197,823	63,115,261	107,376,465	13,015,211	9,058,983
Total Shipments	261,981,517	60,983,597	106,044,483	11,024,403	9,444,532

Table G-4.—Shipments of Foreign Grain from Canadian Elevators into Canadian Consumer Channels, Crop Year 1954-55

From	United States Flaxseed	United States Corn	United States Beans	United States Rice	South African Corn
	bu.	bu.	bu.	bu.	bu.
Eastern Elevators	16,750	2,612,516	826,919	145,584	1,126,051
Fort William-Port Arthur	—	—	—	—	—
Interior Terminals	—	8,421	—	—	—
Interior Private and Mill Elevators	—	999,793	—	—	—
Pacific Coast Elevators	—	—	—	—	—

TRADE AND COMMERCE

Table G-5.—Receipts and Shipments at Eastern Elevators, Crop Year 1954-55

	Receipts	Shipments
	bu.	bu.
Canadian Grain—		
Wheat.....	165,224,432	162,472,568
Oats.....	37,108,914	35,430,709
Barley.....	64,597,168	63,850,144
Rye.....	7,646,992	7,533,424
Flaxseed.....	8,732,414	8,775,330
Corn.....	4,587,626	4,096,903
Beans.....	1,601,371	1,437,005
Buckwheat.....	423,469	420,500
Peas.....	156,077	158,075
Mixed Grain..... (lbs.)	516,295	533,815
Sample Grain..... (lbs.)	23,760,300	16,519,164
United States Grain—		
Flaxseed.....	2,376,010	3,388,370
Corn.....	6,922,321	7,273,437
Beans.....	908,819	826,919
Buckwheat.....	4,974	4,974
Rice.....	145,584	145,584
Other Foreign Grain—		
South African Corn.....	—	1,126,051

Table G-6.—Supply and Disposition of Canadian Grain in United States Positions, Crop Year 1954-55

	Wheat	Oats	Barley	Rye
	bu.	bu.	bu.	bu.
SUPPLY				
In Store and In Transit, U.S.A.....	107,279	—	—	—
Receipts direct from Canada.....	5,299,302	14,810,535	19,606,729	3,090,937
Total Supply.....	5,406,581	14,810,535	19,606,729	3,090,937
DISPOSITION				
Exported.....	35,822	—	—	1,161,554
Returned to Canada.....	501,186	—	521,110	—
Used Domestically.....	4,458,495	14,810,535	19,085,619	1,838,833
Total Disposition.....	4,995,503	14,810,535	19,606,729	3,000,387
In Store and In Transit July 31, 1955..	411,078	—	—	90,550

BOARD OF GRAIN COMMISSIONERS

Table G-7.—Exports of Canadian Wheat, by Seaboard Sectors, by Months, Crop Year 1954-55

	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports	Via Churchill	Via Fort William- Port Arthur direct	Via United States Atlantic Ports	United States Imports ¹		Total All Wheat	Wheat Flour ²	Total Wheat and Wheat Flour
						For Domestic Use	Milling in Bond			
	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
1954										
August	3,928,811	7,460,839	4,275,940	—	—	27,499	157,258	15,850,347	3,380,067	19,230,414
September	7,842,596	11,589,989	6,311,593	—	—	46,901	162,463	25,853,542	3,579,246	29,532,788
October	6,734,643	11,912,713	1,398,560	—	—	57,934	823,778	20,927,628	3,596,153	24,523,781
November	6,496,457	13,663,596	—	—	—	330,548	—	20,490,601	3,494,767	23,985,368
December	8,913,483	7,287,564	—	—	—	65,345	65,654	16,332,046	3,586,018	19,918,064
1955										
January	7,275,611	7,516,178	—	—	—	334,903	—	15,126,692	2,813,666	17,940,358
February	6,716,995	7,385,215	—	—	—	96,194	—	14,198,404	2,700,468	16,898,872
March	7,376,038	9,343,224	—	—	—	173,045	—	16,892,307	3,817,179	20,709,486
April	5,331,074	7,338,413	—	—	35,822	151,827	—	12,857,136	3,853,184	16,710,320
May	4,725,527	10,315,192	—	—	—	401,766	129,692	15,572,177	3,681,958	19,254,135
June	7,280,266	11,229,559	—	—	—	1,047,772	—	19,557,597	3,824,316	23,381,913
July	7,279,767	9,604,414	259,000	—	—	342,792	43,124	17,529,097	2,185,479	19,714,576
Totals Crop Year 1954-55	79,901,268	114,646,896	12,245,093	—	35,822	3,076,526	1,381,969	211,287,574	40,512,501	251,800,075
Totals Crop Year 1953-54	113,345,192	76,562,724	10,980,712	142,740	125,606	5,517,413	2,160,739	208,835,126	46,246,280³	255,081,406
5-year average 1949-50 to 1953-54	89,474,742	121,369,233	7,888,411	156,645	1,917,070	14,211,518	6,398,212	241,415,831	51,090,335	292,506,166

¹ Compiled from returns of Canadian elevator licensees and shippers and advice from American grain correspondents.

² Canadian Customs returns converted to bushels—unadjusted for time lag.

³ Revised—adjusted to remove effect of time lag in reports made by the Customs.

TRADE AND COMMERCE

Table G-8.—Overseas Exports of Canadian Grain, by Seaboard Sectors, by Grades, Crop Year 1954-55

Grades	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports*	Via Churchill	Via United States Atlantic Ports	Total
	bu.	bu.	bu.	bu.	bu.
WHEAT—					
1 Manitoba Northern.....	4,980,856	8,627,801	798,389	—	14,407,046
2 Manitoba Northern.....	35,913,352	72,086,052	10,222,590	35,822	118,257,816
3 Manitoba Northern.....	28,571,079	24,230,553	1,153,620	—	53,955,252
4 Manitoba Northern.....	5,672,792	1,710,828	70,494	—	7,454,114
No. 5.....	1,189,201	1,713,432	—	—	2,902,633
No. 6.....	999,600	52,000	—	—	1,051,600
Feed.....	—	747	—	—	747
2 C.W. Garnet.....	357,431	—	—	—	357,431
3 C.W. Garnet.....	1,286,086	—	—	—	1,286,086
1 Alberta Red Winter.....	120,400	—	—	—	120,400
2 Alberta Winter.....	452,098	—	—	—	452,098
Other Western.....	358,373	543,810	—	—	902,183
Eastern.....	—	1,729,026	—	—	1,729,026
3 C.W. Amber Durum.....	—	2,934,055	—	—	2,934,055
4 C.W. Amber Durum.....	—	787,077	—	—	787,077
Other Durum.....	—	231,515	—	—	231,515
Totals.....	79,901,268	114,646,896	12,245,093	35,822	206,829,079
OATS—					
2 C.W.....	—	158,136	—	—	158,136
3 C.W.....	7,941	282,918	—	—	290,859
Extra 1 Feed.....	1,035,009	319,172	—	—	1,354,181
1 Feed.....	2,233,847	922,598	—	—	3,156,445
2 Feed.....	37,882	900,404	—	—	938,286
Mixed Feed.....	368,212	553,231	—	—	921,443
Eastern.....	—	5,176	—	—	5,176
Totals.....	3,682,891	3,141,635	—	—	6,824,526
BARLEY—					
3 C.W. Six-Row.....	799,319	520,406	—	—	1,319,725
3 C.W. Two-Row.....	1,087,608	1,829,059	—	—	2,916,667
1 Feed.....	9,861,020	6,278,028	—	—	16,139,048
2 Feed.....	2,499,854	31,910,598	—	—	34,410,452
3 Feed.....	—	651,620	—	—	651,620
Tough 1 Feed.....	—	860,296	—	—	860,296
Tough 2 Feed.....	—	1,020,882	—	—	1,020,882
Tough 3 Feed.....	—	17,062	—	—	17,062
Other Western.....	277,428	374,709	—	—	652,137
Eastern.....	—	18,770	—	—	18,770
Totals.....	14,525,229	43,481,430	—	—	58,006,659
RYE—					
2 C.W.....	—	1,589,221	—	—	1,589,221
3 C.W.....	—	4,720,522	—	1,013,944	5,734,467
Tough 3 C.W.....	—	—	—	147,600	147,600
Eastern.....	—	1,291	—	—	1,291
Totals.....	—	6,311,033	—	1,161,544	7,472,577
FLAXSEED—					
1 C.W.....	239,208	4,667,545	—	—	4,906,753
2 C.W.....	79,205	1,359,420	—	—	1,438,625
Totals.....	318,413	6,026,965	—	—	6,345,378

*Includes clearances of 158,337 bushels barley from Fort William-Port Arthur direct.

BOARD OF GRAIN COMMISSIONERS

Table G-9.—Overseas Exports of Canadian Grain, by Ports, Crop Year 1954-55

Loaded at	Wheat (All varieties)	Oats	Barley	Rye	Flaxseed	Total All Grains
	bu.	bu.	bu.	bu.	bu.	bu.
Vancouver-New Westminster.....	78,176,392	3,682,891	9,636,382	—	318,413	91,814,078
Victoria.....	1,410,080	—	—	—	—	1,410,080
Prince Rupert.....	314,796	—	4,888,847	—	—	5,203,643
Montreal.....	48,729,228	2,564,683	35,180,064	5,296,280	2,772,693	94,542,948
Sorel.....	10,474,028	65,882	1,985,567	719,413	322,629	13,567,519
Three Rivers.....	12,382,855	—	454,000	—	—	12,836,855
Quebec.....	12,940,791	—	—	—	—	12,940,791
St. John.....	2,048,733	—	46,687	—	—	2,095,420
West St. John.....	14,469,033	511,070	4,417,032	295,340	2,025,024	21,717,499
Halifax.....	13,602,228	—	1,239,743	—	906,619	15,748,590
Churchill.....	12,245,093	—	—	—	—	12,245,093
Fort William-Port Arthur (direct).....	—	—	158,337	—	—	158,337
Totals—Canadian Ports.....	206,793,257	6,824,526	58,006,659	6,311,033	6,345,378	284,280,853
Albany.....	—	—	—	278,000	—	278,000
New York.....	35,822	—	—	883,544	—	35,822
Norfolk.....	—	—	—	—	—	883,544
Totals—U.S.A. Ports.....	35,822	—	—	1,161,544	—	1,197,366
Totals to Overseas.....	206,829,079	6,824,526	58,006,659	7,472,577	6,345,378	285,478,219
Wheat Flour ¹	40,512,501	612,428	—	—	—	40,512,501
Rollod Oats and Oatmeal ¹	—	14,810,535	19,085,619	1,838,833	—	612,428
U.S.A. Imports ²	4,458,495	—	—	—	—	40,193,482
Grand Totals.....	251,800,075	22,247,489	77,092,278	9,311,410	6,345,378	366,796,630

¹ Canadian Customs Returns—converted to bushels.

² Compiled from returns of Canadian Elevator licensees and shippers and advice from American grain correspondents.

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Table G-10.—Tough and Damp Grain Dried, by Storage Position, Crop Year 1954-

	Artificial Drying			Natural Drying	Total
	Tough	Damp	Tough and Damp		
	Bushels				
LAKEHEAD					
Wheat.....	1,196,082	463,137	1,659,219	10,164,216	11,823,435
Durum Wheat.....	—	241	241	43,971	44,212
Oats.....	97,606	4,119	101,725	4,695,780	4,797,505
Barley.....	7,930,692	557,171	8,487,863	11,671,905	20,159,768
Rye.....	267,495	4,349	271,844	1,810,096	2,081,940
Flaxseed.....	282,460	55,045	337,505	829,223	1,166,728
Totals.....	9,774,335	1,084,062	10,858,397	29,215,191	40,073,588
PACIFIC COAST					
Wheat.....	490,811	98,024	588,835	3,836,917	4,425,752
Oats.....	112,283	186,063	298,346	164,068	462,414
Barley.....	904,512	1,750	906,262	1,700,101	2,606,363
Totals.....	1,507,606	285,837	1,793,443	5,701,086	7,494,529
INTERIOR					
Wheat.....	248,031	—	248,031	145,502	393,533
Flaxseed.....	—	—	—	3,048	3,048
Totals.....	248,031	—	248,031	148,550	396,581
CHURCHILL					
Wheat.....	—	—	—	797,309	797,309
Totals, All Positions..	11,529,972	1,369,899	12,899,871	35,862,136	48,762,007

Table G-11.—Weighted Average Lake Freight Rates on Canadian Grain from For William-Port Arthur, Season of Navigation 1955

Port of Discharge	Wheat	Oats	Barley	Rye	Flaxseed
(cents per bushel)					
Georgian Bay Ports, Goderich, Sarnia and Walkerville.....	4.055	3.533	3.804	4.240	—
Port Colborne.....	6.124	5.265	5.75	6.295	—
Toronto.....	6.5	5.75	6.0	—	7.279
Kingston.....	8.5	6.627	7.366	—	—
Prescott.....	7.0	6.25	6.5	7.0	—
Montreal.....	13.5	11.346	12.75	13.5	14.5
Montreal via Bay Ports.....	13.5	—	—	—	—
Montreal via Port Colborne.....	13.527	11.261	12.75	13.5	14.5
Montreal via Toronto.....	—	—	12.75	13.5	14.5
Montreal via Kingston.....	13.5	11.392	12.75	13.5	14.5
Montreal via Prescott.....	13.5	11.256	12.75	13.5	15.588
Sorel.....	13.5	11.0	12.75	—	—
Sorel via Port Colborne.....	13.5	11.195	12.75	13.5	14.5
Sorel via Prescott.....	13.5	11.122	12.75	—	14.5
Three Rivers via Bay Ports.....	13.5	—	—	—	—
Three Rivers via Port Colborne.....	13.5	—	12.75	13.5	—
Three Rivers via Toronto.....	13.5	—	12.75	13.5	14.5
Three Rivers via Prescott.....	13.5	—	—	—	—
Quebec.....	13.5	11.262	12.75	—	—
Quebec via Port Colborne.....	13.5	—	—	—	—
Quebec via Toronto.....	—	11.5	12.75	—	—
Quebec via Prescott.....	13.5	11.0	12.75	—	—
Buffalo.....	6.698	4.896	6.129	6.056	—
Chicago.....	6.830	—	—	5.375	—
Detroit.....	—	—	5.418	—	—
Duluth-Superior.....	5.688	—	4.358	4.613	—
Huron.....	6.584	—	—	—	—
Manitowoc.....	—	—	5.420	—	—
Milwaukee.....	6.461	—	5.284	6.0	—
Oswego.....	—	—	10.484	—	—

NOTE—Rates originally quoted in United States Funds have been converted to Canadian currency at the prevailing rates of exchange.

Table G-14.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in SEMI-PUBLIC TERMINAL Elevators, Crop Year 1954-55

Date of Weighover	Licensee	EXCESS				DEFICIENCY			
		1 Northern		2 Northern		1 Northern		2 Northern	
		1 Hard	bu.	bu.	bu.	1 Hard	bu.	bu.	bu.
	FORT WILLIAM—PORT ARTHUR								
Dec. 13-18, 1954.....	Canadian Consolidated Grain Co. Ltd. Thunder Bay.....	—	—	—	—	—	—	—	—
Dec. 7-13, 1954.....	Eastern Terminal Elevator Co. Ltd.....	—	45,241.1	—	—	7,591.8	—	42,847.2	124.6
Dec. 14-21, 1954.....	Fort William Elevator Co. Ltd.— Elevator "E".....	—	—	—	—	—	—	—	—
Dec. 7-8, 1954.....	Lakehead Terminals Ltd.....	—	17.9	—	—	183.8	—	13.6	—
	MANITOBA POOL ELEVATORS								
Feb. 14-25, 1955.....	Elevator No. 1.....	—	—	—	—	25.8	1,134.1	5,207.8	—
June 13-16, 1955.....	Elevator No. 2.....	—	—	—	—	260.9	3,591.0	1,464.8	—
Dec. 14-16, 1954.....	Elevator No. 3.....	—	—	—	—	—	—	—	—
May 19-23, 1955.....	Elevator No. 6.....	—	—	—	—	1,350.2	20,054.8	10.3	—
June 6-8, 1955.....	Elevator No. 9.....	—	—	—	—	301.5	3,424.7	1,752.9	2.6
Jan. 31-Feb. 4, 1955.....	McCabe Grain Co. Ltd.....	—	—	—	—	584.4	12,583.9	10,511.5	3.6
Dec. 14-24, 1954.....	National Grain Co. Ltd.....	—	508.1	—	—	—	13,695.8	21,903.5	—
Dec. 6-14, 1954.....	Ogilvie Flour Mills Co. Ltd.....	—	201.6	—	—	—	9,055.6	12,215.8	—
June 6-13, 1955.....	N. M. Paterson & Sons, Ltd.....	—	2,615.3	—	—	—	7,733.5	10,031.5	—
Dec. 20-29, 1954.....	Saskatchewan Wheat Pool— Elevator No. 4.....	—	—	—	—	5,475.6	40,664.3	10,727.7	—
Nov. 9-12, 1954.....	Superior Elevator Co. Ltd.....	—	—	2,815.8	—	631.3	—	5,726.0	—
	VANCOUVER—NEW WESTMINSTER								
July 4-8, 1955.....	Burrard Terminals Ltd.....	—	—	—	—	1,932.2	5,619.0	6,337.1	3.7
Oct. 29-Nov. 2, 1954.....	Searle Grain Co. Ltd.....	—	—	—	—	1,348.8	3,080.3	15,658.3	804.6
Mar. 29-Apr. 7, 1955.....	United Grain Growers Ltd.— Elevator No. 3 (N.H.B.).....	—	—	—	—	1,505.9	9,400.7	15,757.3	313.4

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Table G-14.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in SEMI-PUBLIC
TERMINAL Elevators, Crop Year 1954-55—Concluded

Date of Weighover	Licensee	EXCESS					DEFICIENCY						
		1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet	1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet
		bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
Oct. 8-13, 1954	CHURCHILL, MANITOBA National Harbours Board	—	—	—	2,735.5	—	—	—	1,454.9	6,625.2	—	—	—
Mar. 14-25, 1955	NORTH TRANSCONA, MANITOBA Eastern Terminal Elevator Co. Ltd.	—	—	—	—	—	—	—	174.6	9,627.7	13,755.0	—	—

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Table G-15.—Excesses and Deficiencies in specified Grades of Wheat disclosed by Weighovers of Grain Stored in PRIVATE TERMINAL Elevators, Crop Year 1954-55

Grade of Wheat	Excess	Deficiency
1 Hard.....	—	—
1 Northern.....	—	—
2 Northern.....	—	—
3 Northern.....	—	—
1 C.W. Garnet.....	—	—
2 C.W. Garnet.....	—	—

No wheat of the above grades was handled or in store in the following elevators:

Date of Weighover	Elevator Company	Location
July 31st, 1955.....	Canada Malting Co. Ltd. No. 1.....	Calgary, Alberta
July 29th, 1955.....	Canada Malting Co. Ltd. No. 2.....	Calgary, Alberta
July 29th, 1955.....	Canada Malting Co. Ltd. No. 3.....	Calgary, Alberta
August 20th, 1954.....	Canada Malting Co. Ltd.....	Winnipeg, Manitoba
December 30th, 1954.....	Canada Malting Co. Ltd.....	Port Arthur, Ontario
August 26th, 1954.....	Dominion Malting Co. Ltd.....	Transcona, Manitoba
August 3rd, 1954.....	National Grain Co. Ltd. (D & S).....	Fort William, Ontario.

Table G-16.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1954-55

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1955			bu.	bu.
Feb. 16-19	COLLINGWOOD Collingwood Terminals Ltd.....	Canada Western Wheat.....	—	4,591 M
		Canada Western Oats.....	—	926
		Canada Western Barley.....	—	614
		Canada Western Rye.....	—	84
		U.S.A. Corn.....	—	341
Mar. 3-9	GODERICH Upper Lakes & St. Lawrence Transporta- tion Co. Ltd.....	Canada Western Wheat.....	—	1,521 F
		Canada Western Oats.....	—	916 M
		Canada Western Barley.....	—	350
Mar. 22- Apr. 4	HUMBERSTONE Robin Hood Flour Mills Ltd.....	Canada Western Wheat.....	2,000.2	—
		Canada Western Oats.....	—	46
		Canada Western Barley.....	—	295 M
		U.S.A. Corn.....	—	142
Feb. 10- Mar. 2	KINGSTON Canada Steamship Lines Ltd.....	Canada Western Wheat.....	—	11,205
		Canada Western Oats.....	—	1,114
		Canada Western Barley.....	—	5,145
		Canada Western Rye.....	—	133 M
		Canada Western Flaxseed.....	—	1,086
		Canada Western Sample Grain..	—	*3,22
		U.S.A. Flaxseed.....	—	235
		U.S.A. Corn.....	—	82 F
Feb. 24- Mar. 7	MIDLAND Canadian National Railways.....	Canada Western Wheat.....	—	18,840
		Canada Western Oats.....	—	52
		Canada Western Barley.....	—	472
		U.S.A. Corn.....	262.9	—
Feb. 1-23	Canada Steamship Lines Ltd.....	Canada Western Wheat.....	—	7,086
		Canada Western Oats.....	—	684
		Canada Western Barley.....	—	153
		Canada Western Rye.....	—	507

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Table G-16.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1954-55—Continued

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1955			bu.	bu.
Mar. 8-15	Midland-Simcoe Elevator Co. Ltd.....	Canada Western Wheat.....	—	2,958.0
		Canada Western Oats.....	—	2,790.7
		Canada Western Barley.....	—	432.8
		U.S.A. Corn.....	—	165.9
Feb. 21-24	Renown Investments Ltd.....	Canada Western Wheat.....	—	4.6
		Canada Western Oats.....	—	31.7
		Canada Western Barley.....	—	147.2
		Canada Western Rye.....	—	42.2
		U.S.A. Corn.....	—	590.2
Apr. 21-27	MONTREAL Dominion Elevator Ltd.....	Canada Western Wheat.....	—	3,775.4
		Canada Western Oats.....	—	2,356.7
		Canada Western Barley.....	—	1,618.4
		Canada Western Mixed Grain.....	—	*1,900
		Canada Western Screenings.....	—	*32,640
		U.S.A. Corn.....	—	117.9
Jan. 10-Feb. 9	National Harbours Board.....	Canada Western Wheat.....	—	39,409.4
		Canada Western Oats.....	—	3,451.7
		Canada Western Barley.....	—	18,551.4
		Canada Western Rye.....	—	2,056.8
		Canada Western Flaxseed.....	—	1,090.0
		Canada Western Buckwheat.....	—	337.8
		Canada Western Peas.....	—	99.4
		Canada Western Mixed Grain.....	*16,430	—
		Canada Western Sample Grain.....	*4,521	—
		Canada Western Screenings.....	—	*170
		Canada Western Salvage Grain.....	—	*360
		U.S.A. Flaxseed.....	—	3,245.5
		U.S.A. Corn.....	—	4,270.8
		U.S.A. Buckwheat.....	—	3.1
		U.S.A. Rice.....	—	9.3
		S.A. Corn.....	—	687.2
Feb. 25-Mar. 17	OWEN SOUND Great Lakes Elevator Co. Ltd.....	Canada Western Wheat.....	—	9,460.2
		Canada Western Oats.....	—	3,337.9
		Canada Western Barley.....	—	413.4
		Canada Western Rye.....	—	13.6
		Canada Western Screenings.....	—	*26,890
Feb. 28-Mar. 9	PORT COLBORNE Maple Leaf Milling Co. Ltd.....	Canada Western Wheat.....	—	10,622.1
		Canada Western Oats.....	—	98.5
		Canada Western Barley.....	—	947.3
		Canada Western Rye.....	—	115.8
		U.S.A. Corn.....	—	9.4
Mar. 10-21	National Harbours Board.....	Canada Western Wheat.....	—	16,216.9
		Canada Western Oats.....	—	262.2
		Canada Western Barley.....	—	7,586.4
		Canada Western Rye.....	—	279.9
		Canada Western Flaxseed.....	—	543.0
		U.S.A. Flaxseed.....	—	2,310.7
		U.S.A. Corn.....	—	1,378.1
Mar. 16-28	PORT McNICOLL Canadian Pacific Railway Co.....	Canada Western Wheat.....	—	12,485.0
		Canada Western Oats.....	—	34.5
		Canada Western Barley.....	—	88.4
Feb. 7-23	PRESCOTT National Harbours Board.....	Canada Western Wheat.....	—	8,288.6
		Canada Western Oats.....	—	2,716.3
		Canada Western Barley.....	—	8,132.0
		Canada Western Rye.....	—	481.0
		Canada Western Flaxseed.....	—	255.5
		Canada Western Buckwheat.....	—	63.9
		Canada Western Sample Grain.....	—	*120
		U.S.A. Flaxseed.....	—	1,020.0
		U.S.A. Corn.....	—	1,415.8
		S.A. Corn.....	—	1,054.0

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Table G-16.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1954-55—Concluded

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1955			bu.	bu.
Feb. 7-25	QUEBEC National Harbours Board.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Peas..... Canada Western Screenings..... U.S.A. Corn.....	— — — — — —	6,067 2,319 2,405 — *4 83
Mar. 16- Apr. 23	SARNIA Sarnia Elevator Co. Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Flaxseed..... U.S.A. Corn..... U.S.A. Soybeans.....	— — — — — —	16,143 4,039 1,064 22 1,311 112
Mar. 14-29	SOREL North American Elevators Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Screenings..... U.S.A. Flaxseed.....	— — — — — —	10,398 192 2,753 253 *2 362
Mar. 3-15	TORONTO Toronto Elevators Ltd.....	Canada Western Wheat..... Canada Western Oat..... Canada Western Barley..... Canada Western Flaxseed..... Canada Western Screenings..... U.S.A. Corn..... U.S.A. Beans.....	— — — — — — —	5,609 4,633 2,937 1,288 *2,94 2,486 2,911
Apr. 28- May 5	WALKERVILLE Hiram Walker & Sons Grain Corp. Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Flaxseed..... U.S.A. Corn.....	— — — 737.1 — —	2,799 227 161 — 41 1,512
Apr. 4-6	HALIFAX National Harbours Board.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Flaxseed..... Canada Western Peas..... U.S.A. Corn.....	— — — — — —	7,812 11 796 568 6 32
Mar. 30- Apr. 1	ST. JOHN Canadian National Railways Co.....	Canada Western Wheat..... Canada Western Barley.....	— —	1,335 29
Apr. 12-14	WEST ST. JOHN Canadian Pacific Railway Co. Elevator "B".....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Flaxseed..... Canada Western Buckwheat.....	— — — — — —	3,076 131 1,353 105 10 2
Apr. 14-19	Canadian Pacific Railway Co. Elevator "H".....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Flaxseed..... Canada Western Buckwheat..... Canada Western Peas..... Canada Western Screenings.....	— — — — — — — —	2,439 188 1,174 79 1,255 47 11 *26

* Lbs.

APPENDIX H

The Grain Research Laboratory

J. ANSEL ANDERSON, *Chief Chemist*

Section 22 of the Canada Grain Act requires that "the Board shall maintain an efficient and adequately equipped laboratory for research work in relation to grain."

A summary of the Laboratory's investigations for the year 1955 is given below.

QUALITY OF GRAIN OF THE 1954-55 CROP YEAR

Studies of the qualities of spring wheat, durum wheat, barley and flax, moved from country elevators to terminal elevators or industrial plants, shipped from the Lakehead and exported from Canada, were continued during the 1954-55 crop year. Although considerable amounts of wheat carried over in country elevators and on farms were moved during the crop year, average quality reflected mainly the unfavourable conditions to which the 1954 crop was exposed. The rust epidemic reduced bushel weight and a relatively wet season kept the protein content low for the third successive season.

Milling quality of spring wheat was satisfactory, but baking strength, which depends largely on protein content, was well below the long-term average though not inferior to that of the preceding year. Macaroni-making quality of durum wheat was about average. Malting quality of barley was classed as good, though not quite equal to that of the previous year. The quality of high grades of flax was excellent with considerably higher oil content and better drying quality than in 1953-54.

ESTIMATED QUALITY OF 1955 CROPS

The 1955 spring wheat crop was harvested early in generally good weather, and the grain was mostly dry and high in grade; about half the crop will grade No. 2 Northern and about 90% is expected to enter the top three Northern grades. Bushel weight is high, and protein content (13.0%) is higher than it has been since 1951, though still below the long-term average of 13.5%. Milling yield is good, but flour ash is higher than usual though flour colour is better. Gassing power and absorption are both at desirable levels, and doughs are lively and extensible. Baking strength and carrying power are normal for Canadian wheat of 13% protein.

Production of durum wheat in 1955 shifted westward away from the rust area and higher yields brought the largest crop in many years. More than half the crop will grade Extra 4 C.W. Amber Durum, the new commercial grade which provides for the grading of varieties classed as not "equal to Mindum" that were previously eligible for No. 3 C.W. Amber Durum. Macaroni quality is better this year than last; Nos. 1, 2 and 3 C.W. Amber Durum are outstanding and Extra 4 C.W. Amber Durum is well above the quality expected for this grade.

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The new barley crop is high in grade and more than half will enter the malt grades. Malting quality is higher than that of last year's crop with improvement in bushel weight and yield of malt extract. The new crop is similar to last year's barley in nitrogen content and kernel weight, and clean-out losses are lower.

Production of flax in 1955 was the highest on record since 1912 and well over 80% will grade No. 1 C.W. Oil content and iodine value are lower than for previous crop but about equal to long-time average figures.

BULLETINS AND MAPS

Detailed information of the quality of grades of 1955 crops, presented at the meetings of the Committee on Western Grain Standards, was published for the information of domestic and foreign customers in four crop bulletins and two protein maps.

Because of large carryovers in recent years, the information in the wheat bulletins has been of limited use to overseas buyers who do not know when they will begin to receive new-crop wheat. To overcome this difficulty, publication of a new series of quarterly bulletins on "Canadian Wheat Cargoes" was begun in November. Since the quality of top grades of wheat remains relatively constant, the prompt publication of quality data for exports in the previous quarter makes it possible to predict the quality that can be expected in the current quarter. Moreover, by comparing data for the past two or more quarters, any trend in quality can be detected, and it will generally be possible to predict whether this trend is likely to continue. Favourable comments have already been received on the first issue, and the series will be continued with four issues per year.

SERVICE TO THE INSPECTION BRANCH

The Laboratory continued to work closely with the Inspection Branch to provide information and service required in solving various grading problems. Studies were made of the quality of tentative Standard Samples and Standard Export Samples. Special studies were made of midge damage and of glume blot in wheat to provide guides in grading. A number of individual samples of various grains submitted by the Inspection Branch were analyzed to confirm the presence of possible contaminants and to identify them. The quality and grading problems caused by broken grain in flax was investigated. Supervision of equipment and the technique of moisture testing was continued throughout the year, together with studies leading to the increased use of rapid electrical moisture meters. Additional studies looking to the maintenance and possible improvement of uniformity in the quality of exports of top grades of wheat were initiated.

SERVICE TO OTHER ORGANIZATIONS

There has been a substantial increase in the Laboratory's services to the Canadian Wheat Board and to the Grain Division of the Department of Trade and Commerce through its liaison with Trade Commissioners and Commercial Secretaries throughout the world. In general, these services have involved comparisons of Canadian wheats of various grades with competing wheats from other countries. Special milling and baking studies have been undertaken as required, and technical information and advice relating to interpretation of quality data have been provided.

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Largely as a result of foreign missions visiting Canada, and of visits to foreign countries by members of the staff, there has also been a substantial increase in direct inquiries addressed to the Laboratory by government officials, milling and other grain companies, and cereal chemists in foreign countries. These inquiries also deal mainly with the problem of assessing quality in grain, and occasionally involve special laboratory studies.

The Laboratory has continued to co-operate with the Department of Agriculture and the National Research Council in studies of new varieties of spring wheat grain sponsored by the Associate Committee on Grain Research. Close contact is also maintained with Barley Breeders through this Committee and by co-operation with the Barley Improvement Institute. The Laboratory has continued to provide the only service on quality evaluation available to Canadian breeders of durum varieties. As in the past, the Laboratory continues to undertake its share of work for the American Association of Cereal Chemists.

GRAIN MISSIONS

During the year, official missions from Pakistan, Great Britain, Japan, South America (Colombia, Ecuador, Peru and Venezuela), Germany and the U.S.S.R., included the Laboratory in their itineraries. In addition, there were other visitors from Great Britain, Germany, Sweden, Switzerland, Pakistan, India, Burma, Japan, Argentina, Chile, Uruguay, New Zealand, Australia, and many visitors from other laboratories and organizations in the United States and Canada.

Under the Colombo Plan, two members of the Pakistan Mission, Mr. Jamil Ahmad Khan and Mr. Arfan Uddin Ahmad, are studying in the Laboratory for a full year in preparation for the establishment of a similar government cereal laboratory in Pakistan.

Dr. G. N. Irvine represented the Laboratory at the International Bread Congress held at Hamburg, Germany. He presented two papers and was also accorded the honour of appointment as chairman of one of the Technical Divisions. Dr. Irvine also visited laboratories, mills, etc., in Germany, Switzerland, France and Great Britain.

RESEARCH INVESTIGATIONS

The immediate objective of the Laboratory's research is to obtain increased knowledge of the various factors that control quality in grain; the ultimate objective is to apply this knowledge in aiding: breeding of better quality varieties; production of higher grade crops; improvement of the grading system; maintenance of quality during shipment, processing and storage; and sale of Canadian grain in all markets. The research is "basic" in the sense that it drives towards an understanding of scientific principles often beyond the periphery of existing knowledge; and "applied" in the sense that the level of knowledge currently achieved is always in use to deal with practical problems.

Research on spring wheat continues to deal mainly with factors affecting the quality of dough. The changes caused in dough by various chemicals and the rates of disappearance of these chemicals, provide an insight into the reactions taking place in the chemical architecture of the dough. Improvements are also being made in equipment for measuring changes in dough properties. Related lines of research deal with the changes in flour during storage and with the absorption by flour of gases and vapours, which relates both to aging of flour during storage and the use of gaseous flour improvers during milling. It may thus be said that a centripetal attack is being made, in a number of different ways, on the key problems of flour and dough chemistry.

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During the past few years, basic research on durum and macaroni-making quality reached a stage at which it provided much needed tools for aiding plant breeders and assessing the quality of grades of each new crop. It therefore seems feasible to relax basic research in this area and concentrate on applied problems.

In the barley section, further studies along certain lines were hindered by the inadequacy of existing laboratory malting equipment. More advanced equipment involving closer control of malting conditions and larger samples, is nearing completion. Steep tank and germinator (similar to the Boby Drum) are in operation and the kiln has been designed for early construction. Completion of this equipment will provide better facilities for both applied studies and basic research. Attention continues to be directed towards a better understanding of the chemical processes whereby relatively flinty barley is transformed into a friable, malleable malt. Factors under study involve enzymes that break down cell walls and the constituents of the walls on which they act.

Research on a variety of other minor projects is also in progress in the various sections of the Laboratory.

ANNUAL REPORT

In accordance with previous practice, a separate detailed report on the work of the Grain Research Laboratory will be published to put on record data on the quality of Canadian grain crops and progress reports on the Laboratory's research.

APPENDIX I

Canadian Government Elevators

A. E. JACOBSON, *General Manager*

In accordance with the provisions of Section 166 of the Canada Grain Act and Order-in-Council P.C. 1372 of August 19, 1925, the Board manages and operates five interior terminal elevators at Moose Jaw, Saskatoon, Calgary, Edmonton and Lethbridge and one terminal elevator at Prince Rupert, and manages one terminal elevator at Port Arthur.

In the 1954-55 crop year the interior and Prince Rupert elevators were operated under public terminal elevator licence while the Port Arthur elevator continued under lease to McCabe Grain Company Limited.

HANDLINGS

Receipts and shipments in the crop year 1954-55 were less than in the previous crop year by twenty-six per cent and seventeen per cent respectively. However, the stocks in store at the end of the crop year showed little change. Barley constituted the major portion of the receipts with five million bushels at Prince Rupert and 1.2 millions at Calgary. By elevators, receipts and shipments during the crop year were:

Elevator	Capacity	Stocks August 1, 1954	Net Receipts	Net Shipments	Stocks July 31, 1955
	million bu.	bu.	bu.	bu.	bu.
Moose Jaw	5.50	5,467,087	955,925	938,465	5,484,192
Saskatoon	5.50	5,451,374	869,455	1,453,279	4,867,397
Calgary	2.50	1,247,150	2,261,480	2,036,095	1,472,447
Edmonton	2.35	1,824,891	869,135	837,109	1,855,563
Lethbridge	1.25	1,168,274	18,265	18,030	1,166,957
Prince Rupert	1.25	577,527	5,237,398	5,203,643	594,316
Totals	18.35	15,736,303	10,211,658	10,486,621	15,440,872

CHARGES

Storage and elevation charges were unchanged from the previous crop year. At the interior elevators storage charges were 1/45c per bushel per day. At Prince Rupert the charge was 1/35c per bushel per day. Elevation charges at Prince Rupert were the same as those in effect at the Lakehead and other Pacific Coast terminal elevators but at the interior elevators elevation charges on wheat, oats, barley and corn at 1 1/8c per bushel were lower by 1c and on rye at 1 1/8c per bushel and flax at 2 1/4c per bushel were lower by 1 1/2c per bushel than charges at Lakehead and Pacific terminal elevators.

MAINTENANCE

All elevator equipment and trackage was maintained in good repair. Progress was made on the installation of a dust control system at the Prince Rupert elevator. A new administrative building was completed at Moose Jaw and a similar building was under construction at Saskatoon. Plans and contracts were prepared for improved administrative buildings at Calgary and Edmonton, as well as for

TRADE AND COMMERCE

extensive repairs to the concrete of the buildings and bins at the Edmonton, Lethbridge and Prince Rupert elevators. The scales at the Edmonton and Prince Rupert elevators were completely reconditioned. Such reconditioning will be continued at the other interior elevators.

STAFF

Staff employed as at December 31, 1955, compared with figures at December 31, 1954, is as follows:

	1955		1954	
	Total including Casuals	Casuals	Total including Casuals	Casuals
Winnipeg (Head Office)	8	—	8	—
Moose Jaw	28	2	29	3
Saskatoon	35	12	33	7
Calgary	33	4	34	4
Edmonton	32	6	30	4
Lethbridge	20	1	20	1
Prince Rupert	37	15	44	20
	193	40	198	39

REVENUE AND EXPENDITURE

Revenue and expenditure for the fiscal year 1954-55, compared with previous fiscal year, were as follows:

	1954-55	1953-54
Revenue	\$1,733,618	\$1,884,060
Expenditure	1,050,920	1,104,990
Surplus	682,698	779,070

For the first nine months of the current fiscal year revenue was \$1,517,200 and expenditure was \$916,458.

APPENDIX J

Table J-1.—EXPENDITURE, by Point, Branch and General Item, Fiscal Year Ended March 31, 1955

Point and Branch	Salaries	Rent	Travelling Expenses	General Expenses	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
WINNIPEG					
Executive.....	96,541 73	8,877 16	7,250 64	14,093 36	126,762 89
Assistant Commissioner.....	8,499 96	831 00	1,894 13	376 72	11,601 81
Licence and Bonding.....	21,572 49	2,010 00	—	3,319 51	26,902 00
Registration.....	30,904 69	2,826 96	530 40	1,097 06	35,359 11
Research Laboratory.....	125,986 48	17,338 80	3,797 27	34,858 48	181,981 03
Statistics.....	75,241 17	4,879 44	220 30	19,256 93	99,597 84
Appeal Tribunal.....	5,700 00	584 40	—	1,219 29	7,503 69
Standards Committees.....	—	—	3,130 20	2,280 00	5,410 20
Inspection.....	553,081 94	26,331 40	1,881 19	34,490 65	615,785 18
Weighing.....	52,704 13	1,484 32	871 99	1,833 89	56,894 33
CHURCHILL—					
Inspection.....	16,215 05	—	6,338 48	13,907 12	36,460 65
Weighing.....	5,651 06	—	3,288 46	6,924 73	15,864 25
KEEWATIN—					
Inspection.....	6,000 00	—	—	61 95	6,061 95
Weighing.....	8,040 00	—	—	54 63	8,094 63
SASKATOON—					
Assistant Commissioner.....	11,409 96	—	3,080 33	674 31	15,164 60
Inspection.....	34,985 46	877 00	39 55	1,291 78	37,193 79
Weighing.....	24,172 27	—	1,236 93	9 50	25,418 70
MOOSE JAW—					
Inspection.....	31,835 76	1,440 00	63 10	1,040 95	34,379 81
Weighing.....	15,221 03	—	—	13 21	15,234 24
MEDICINE HAT—					
Inspection.....	10,290 00	841 00	—	205 59	11,336 59
Weighing.....	11,492 50	—	—	32 70	11,525 20
LETHBRIDGE—					
Inspection.....	10,050 00	—	—	73 18	10,123 18
Weighing.....	6,630 00	—	—	10 00	6,640 00
CALGARY—					
Assistant Commissioner.....	11,559 96	828 00	3,899 64	477 47	16,765 07
Inspection.....	88,064 79	3,001 00	245 25	3,916 88	95,227 92
Weighing.....	39,893 15	314 04	639 95	313 57	41,160 71
Appeal Tribunal.....	5,700 00	420 00	—	1,013 84	7,133 84
EDMONTON—					
Inspection.....	109,298 32	8,754 00	55 25	5,028 20	123,135 77
Weighing.....	11,590 00	—	250 22	168 68	12,008 90
Appeal Tribunal.....	6,540 00	1,170 00	—	511 08	8,221 08
VANCOUVER—					
Inspection.....	158,839 82	6,965 40	—	5,902 75	171,707 97
Weighing.....	165,253 76	2,675 40	1,604 50	3,229 65	172,763 31
Registration.....	9,840 00	1,795 20	—	285 37	11,920 57
FORT WILLIAM—					
Inspection.....	657,475 44	18,492 00	5,029 91	19,737 89	700,735 24
Weighing.....	519,287 75	3,972 00	34,397 04	7,584 42	565,241 21
TORONTO—					
Inspection.....	8,181 82	1,200 00	111 40	434 71	9,927 93
MONTREAL—					
Inspection.....	89,420 98	4,296 00	9,822 08	2,200 17	105,739 23
Weighing.....	4,320 00	939 36	52 80	611 41	5,923 57
Registration.....	13,020 00	1,064 64	—	1,096 79	15,181 43
CHATHAM—					
Inspection.....	37,377 09	1,260 00	14,117 26	2,152 32	54,906 67

TRADE AND COMMERCE

Table J-1.—EXPENDITURE, by Point, Branch and General Item, Fiscal Year Ended March 31, 1955—Concluded

Point and Branch	Salaries	Rent	Travelling Expenses	General Expenses	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
PRINCE RUPERT—					
Inspection.....	10,129 03	—	245 54	—	10,374 57
Weighing.....	5,711 71	—	2,252 84	57 75	8,022 30
VICTORIA—					
Inspection.....	7,985 20	—	21 50	7 00	8,013 70
Weighing.....	6,567 69	—	121 00	—	6,688 69
Totals.....	3,128,282 19	125,468 52	106,489 15	191,855 49	3,552,095 35

BOARD OF GRAIN COMMISSIONERS

Table J-2.—Accrued Revenue, by Point and Branch, Fiscal Year Ended March 31, 1955

Point and Branch	Fees	Samples Sold	Other Revenue (a)	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.
WINNIPEG—				
Executive.....	—	—	2,055 00	2,055 00
Licence and Bonding.....	29,358 00	—	—	29,358 00
Registration.....	26,226 62	—	4 18	26,230 80
Appeal Tribunal.....	1,563 00	—	—	1,563 00
Research Laboratory.....	—	—	2 17	2 17
Inspection.....	355,366 90	9,469 85	5,171 36	370,008 11
Weighing.....	28,967 02	—	2,056 38	31,023 40
CHURCHILL				
Inspection.....	39,765 79	—	—	39,765 79
Weighing.....	19,882 89	—	—	19,882 89
KEEWATIN				
Inspection.....	5,774 52	—	—	5,774 52
Weighing.....	6,204 21	—	—	6,204 21
SASKATOON—				
Inspection.....	21,345 77	859 11	108 73	22,313 61
Weighing.....	10,984 39	—	—	10,984 39
MOOSE JAW—				
Inspection.....	11,011 18	313 97	28 08	11,353 23
Weighing.....	5,670 55	—	18 88	5,689 43
MEDICINE HAT—				
Inspection.....	9,934 84	391 63	—	10,326 47
Weighing.....	10,778 74	—	309 60	11,088 34
LETHBRIDGE—				
Inspection.....	546 00	98 26	—	644 26
Weighing.....	106 52	—	—	106 52
CALGARY—				
Inspection.....	86,563 02	2,085 26	325 00	88,973 28
Weighing.....	16,808 79	—	1,142 84	17,951 63
Appeal Tribunal.....	1,143 00	—	—	1,143 00
EDMONTON—				
Inspection.....	70,187 79	1,387 21	294 25	71 869 25
Weighing.....	3,608 53	—	—	3,608 53
Appeal Tribunal.....	516 00	—	—	516 00
VANCOUVER—				
Inspection.....	210,308 18	7,358 98	506 74	218,173 90
Weighing.....	166,408 06	—	568 42	166,976 48
Registration.....	8,732 73	—	—	8,732 73
FORT WILLIAM				
Inspection.....	636,247.97	15,183 25	1,121 46	652,552 68
Weighing.....	485,037 51	—	1,016 01	486,053 52
TORONTO				
Inspection.....	5,120 99	70 50	144 16	5,335 65
Weighing.....	335 00	—	—	335 00
MONTREAL—				
Inspection.....	7,117 13	419 09	735 18	8,271 40
Registration.....	9,199 14	—	—	9,199 14
CHATHAM—				
Inspection.....	52,256 21	856 91	1,460 40	54,573 52
PRINCE RUPERT—				
Inspection.....	13,746 08	243 51	44 57	14,034 16
Weighing.....	9,932 67	—	59 70	9,992 37
VICTORIA—				
Inspection.....	3,750 85	88 04	—	3,838 89
Weighing.....	3,025 82	—	—	3,025 82
Totals.....	2,373,532 41	38,825 57	17,173 11	2,429,531 09

(a) Details in Table J-4.

Table J-3.—Accrued Revenue and Net Expenditure by Points and Branches, Fiscal Year ended March 31, 1955

	Inspection		Weighing		Appeal Tribunals		Registration		License and Bonding		Statistics		Research Laboratory		Grain Standards Committee		Administration		Total	
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
REVENUE																				
Winnipeg.....	370,008	11	31,023	40	1,563	00	26,230	80	29,358	00	—	—	2 17	—	—	—	2,055	00	460,240	48
Churchill.....	39,765	79	19,882	89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	59,648	68
Keewatin.....	5,774	52	6,204	21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11,978	73
Saskatoon.....	22,313	61	10,984	39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	33,298	00
Moose Jaw.....	11,353	23	5,689	43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17,042	66
Medicine Hat.....	10,326	47	11,088	34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,414	81
Lethbridge.....	644	26	106	52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	750	78
Calgary.....	88,973	28	17,951	63	1,143	00	—	—	—	—	—	—	—	—	—	—	—	—	108,067	91
Edmonton.....	71,869	25	3,608	53	516	00	—	—	—	—	—	—	—	—	—	—	—	—	75,993	78
Vancouver.....	218,173	90	166,976	48	—	—	8,732	73	—	—	—	—	—	—	—	—	—	—	393,883	11
Fort William.....	652,552	68	486,053	52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,138,606	20
Toronto.....	5,335	65	335	00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5,670	65
Montreal.....	8,271	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	17,470	54
Chatham.....	54,573	52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	54,573	52
Prince Rupert.....	14,034	16	9,992	37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24,026	53
Victoria.....	3,838	89	3,025	82	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6,864	71
Totals.....	1,577,808	72	772,922	53	3,222	00	44,162	67	29,358	00	—	—	2 17	—	—	—	2,055	00	2,429,531	09

BOARD OF GRAIN COMMISSIONERS

	Inspection		Weighing		Appeal Tribunals		Registra- tion		License and Bonding		Statistics		Research Laboratory		Grain Standards Committee		Adminis- tration		Total	
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
EXPENDITURE																				
Winnipeg.....	615,785	18	56,894	33	7,503	69	35,359	11	26,902	00	99,597	84	181,981	03	5,410	20	138,364	70	1,167,798	08
Churchill.....	36,460	65	15,864	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52,324	90
Keewatin.....	6,061	95	8,094	63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14,156	58
Saskatoon.....	37,193	79	25,418	70	—	—	—	—	—	—	—	—	—	—	—	—	15,164	60	77,777	09
Moose Jaw.....	34,379	81	15,234	24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49,614	05
Medicine Hat.....	11,336	59	11,525	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22,861	79
Lethbridge.....	10,123	18	6,640	00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16,763	18
Calgary.....	95,227	92	41,160	71	7,133	84	—	—	—	—	—	—	—	—	—	—	16,765	07	160,287	54
Edmonton.....	123,135	77	12,008	90	8,221	08	—	—	—	—	—	—	—	—	—	—	—	—	143,365	75
Vancouver.....	171,707	97	172,763	31	—	—	11,920	57	—	—	—	—	—	—	—	—	—	—	356,391	85
Fort William.....	700,735	24	565,241	21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,265,976	45
Toronto.....	9,927	93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9,927	93
Montreal.....	105,739	23	5,923	57	—	—	15,181	43	—	—	—	—	—	—	—	—	—	—	126,844	23
Chatham.....	54,906	67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	54,906	67
Prince Rupert.....	10,374	57	8,022	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	18,396	87
Victoria.....	8,013	70	6,688	69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14,702	39
Totals.....	2,031,110	15	951,480	04	22,858	61	62,461	11	26,902	00	99,597	84	181,981	03	5,410	20	170,294	37	3,552,095	35

Table J-4.—Summary of Operations by Branches, Fiscal Year ended March 31, 1955

	Inspection		Weighing		Appeal Tribunals		Registra- tion		License and Bonding		Statistics		Research Laboratory		Grain Standards Committee		Adminis- tration		Total	
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
REVENUE																				
Fees.....	1,529,043	22	767,750	70	3,222	00	44,158	49	29,358	00	—	—	—	—	—	—	—	—	2,373,532	41
Samples Sold.....	38,825	57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	38,825	57
Other Revenue.....	6,143	96	5,108	72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11,252	68
Overtime Refunded.....	3,628	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,628	11
Express Charges.....	104	50	48	00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	152	50
Jury Fees.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,055	00
Fines.....	63	36	15	11	—	—	4	18	—	—	—	—	2	17	—	—	—	—	84	82
Refund of Previous Year's Expenses.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals.....	1,577,808	72	772,922	53	3,222	00	44,162	67	29,358	00	—	—	2	17	—	—	2,055	00	2,429,531	09
EXPENDITURE																				
Salaries.....	1,829,230	70	876,535	05	17,940	00	53,764	69	21,572	49	75,241	17	125,986	48	—	—	128,011	61	3,128,282	19
Rent.....	73,457	80	9,385	12	2,174	40	5,686	80	2,010	00	4,879	44	17,338	80	—	—	10,536	16	125,468	52
Travel.....	37,970	51	44,715	73	—	—	530	40	—	—	220	30	3,797	27	3,130	20	16,124	74	106,489	15
General Expenses.....	68,981	79	16,297	24	2,728	40	1,714	45	533	47	12,761	36	31,444	79	2,280	00	12,212	11	148,953	61
Printing and Stationery.....	21,469	35	4,546	90	15	81	764	77	2,786	04	6,495	57	3,413	69	—	—	3,409	75	42,901	88
Totals.....	2,031,110	15	951,480	04	22,858	61	62,461	11	26,902	00	99,597	84	181,981	03	5,410	20	170,294	37	3,552,095	35

APPENDIX K

Regulations

Regulations in effect December 31, 1955, made in accordance with the provisions of the Canada Grain Act

Regulation
No.

- 1 Registration and Cancellation of Terminal Elevator Warehouse Receipts.
- 2 Registration and Cancellation of Eastern Warehouse Receipts and Transfer Receipts.
- 3 Plans re Terminal and Eastern Elevators.
- 4 Cleaning Grain and Bins, Terminal Elevators.
- 5 Off Grades for Western Grain.
- 6 Off Grades for Eastern Grain.
- 7 Grades of Screenings.
- 8 Inspection of Samples taken other than at an Inspection Point.
- 9 Appeals from Inspecting Officers to Grain Appeal Tribunals.
- 10 Delivery of Grain to Ocean Vessels at Montreal, Quebec.
- 11 Delivery of Grain to Ocean Vessels at West Saint John, N.B.
- 12 Delivery of Grain to Ocean Vessels at East Saint John, N.B.
- 13 Delivery of Grain to Ocean Vessels at Halifax, N.S.
- 14 Enforcement of Lien by Sale of Grain.
- 15 Drying of Grain.
- 16 Fees.
- 17 Records, Reports and Returns.
- 18 Procedure, Country Elevators.
- 19 Receipt for Grain Delivered to Private Country Elevators and Mill Elevators.
- 20 Maximum Tariff of Charges, Eastern Elevators.
- 21 Maximum Tariff of Charges and Shrinkage Allowance, Country Elevators.
- 22 Maximum Tariff of Charges, Terminal Elevators.
- 23 Applications for Licences and Terms and Conditions under which Licences are Issued.
- 24 Storage in Transit of Grain Grown Outside Canada.
- 25 Tickets and Receipts—Country Elevators.
- 26 Delivery of Treated Grain to Elevators.
- 27 Shipment of Infested Grain.

Date Due

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RETURN

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